## In The Matter Of:

In Re: Viagra Products Liability Litigation

DANIEL A. SHAMES *March* 13, 2009

# **MERRILL LEGAL SOLUTIONS**

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SHAMES, DANIEL A. - Vol. 1

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UNITED STATES DISTRICT COURT

DISTRICT OF MINNESOTA

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In re

Viagra Products Liability Litigation,

MDL Docket No. 1724

This Document Relates to All Actions

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March 13, 2009

10:55 a.m.

Deposition of DANIEL A. SHAMES, taken by Plaintiffs, pursuant to Notice, at the offices of Kaye Scholer LLP, 425 Park Avenue, New York, New York, before ERIC J. FINZ and ANITA SHEMIN, Shorthand Reporters and Notaries Public within and for the State of New York.

2 (Pages 2 to 5)

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	Page 2		Page 4
1		1	DANIEL A. SHAMES
3	APPEARANCES:	2	Q. Any time you don't understand my
4	BEFORE: JOHN W. BORG, ESQ.	3	question, you'll tell me?
-	Special Master	4	A. Yes.
5	•	5	
6		6	Q. So if you do answer my question,
7	THE MILLER LAW FIRM, LLC Attorneys for Plaintiffs	7	I'm going to assume you answer it truthfully
'	Two Bala Plaza	4	and fully. Is that fair?
8	Bala Cynwyd, Pennsylvania 19004	8	A. That's fair.
9	BY: CHRISTOPHER A. GOMEZ, ESQ.	9	Q. If you need a break at any time,
10	KAYE SCHOLER LLP	10	be a self-self-self-self-self-self-self-self-
**	Attorneys for Pfizer	11	we'll accommodate you.
12	425 Park Avenue	12	
1,2	New York, New York 10022	13	2. If you could just state your full
13	DV. LODID LEGUNI EGO	14	the address for the record.
14	BY: LORI B. LESKIN, ESQand-	15	A. Daniel A. Shames. In New York
	MARK D. SPATZ, ESQ.	16	Tipuranient 27-D, 11CW
15	, (	17	York, New York.
16 17	ALSO DEFOUNT.	18	Q. And are you a medical doctor?
	ALSO PRESENT: CHRISTINE HOGAN, Kay Scholer LLP	19	A. Yes.
19	CINGOTHE HOGAN, Kay SCHOLE ELF	20	Q. What's your specialty?
20		21	A. Urology.
21 22		22	Q. And do you currently treat
23		23	patients?
24		24	A. No, I do not.
25		25	Q. I have seen some indications that
	Page 3		Page 5
1	DANIEL A. SHAMES	1	•
2	DANIEL A. SHAMES,	1 2	DANIEL A. SHAMES
3	having been first duly sworn by the Notary	3	you have a urology practice in South Carolina;
4	Public (Eric J. Finz), was examined and		is that correct?
5	testified as follows:	4	A. I had a urology practice in South
6	EXAMINATION BY	5	Carolina, that is correct.
7	MR. GOMEZ:	6	Q. When did you stop being associated
8		7	with that practice?
9	Q. Good morning, Dr. Shames.	8	A. In 1996.
10	A. Yes.	9	Q. Okay. Have you treated patients
11	Q. Did I pronounce that correctly?	10	in the urology field since 1996?
12	A. Yes.	11	A. I briefly treated patients early
13	Q. We met earlier. My name is Chris	12	on during the period when I started at FDA in
ľ	Gomez, I'm here to take your deposition today.	13	a clinic, in a teaching, I was an associate
14	From what I understand, this is	14	professor at Georgetown. And I was in a
15	your first time ever giving a deposition?	15	clinic with the residents and performed some
16	A. That's correct.	16	teaching services and treated patients with
17	Q. Before we begin, let me go over a	17	the residents. I did a clinic. Only one half
18	few things with you. I'm going to be asking	18	afternoon a week.
19	the questions, you'll be providing me the	19	Q. Okay. Doctor, I'm going to mark
20	answers. I'm usually the culprit, but we	20	now as Exhibit 1, Shames 1, what's called the
21	can't talk over each other so the court	21	notice of your videotape deposition, which is
22	reporter can take down an accurate record.	22	not being videotaped.
23	Feel free to tell me if I'm doing that,	23	(Shames Exhibit 1 for
24	because I'm the one that usually does it.	24	identification, notice of videotape
25	A. Okay.	25	deposition.)
<b>20</b> (2000).(c)			aoposition.)

3 (Pages 6 to 9)

Page 6 Page 8 1 DANIEL A. SHAMES 1 DANIEL A. SHAMES 2 Q. I'll just pass that to you. 2 material he relied upon. 3 MR. GOMEZ: Lori, do you need a 3 MR. GOMEZ: You mean the appendix 4 copy? 4 and whatever's cited within the expert 5 MS. LESKIN: I don't have a copy 5 report? 6 with me. 6 MS. LESKIN: Exactly. 7 Q. Doctor, have you seen that 7 Q. Doctor, I was also provided with 8 document before? an updated curriculum vitae. We will go over 8 9 A. Yes, I have. I have seen this 9 this in more detail in a moment, but I just 10 document before. 10 wanted to point that out for the record. 11 I just want to point your 11 A. Okay. 12 attention to the, just go to the back, I 12 Q. And some deposition transcripts 13 believe it's the third page from the back, 13 that you reviewed. And you've reviewed the 14 there is a page entitled "attachment A." deposition transcripts of Gregory Gribko? 14 15 Do you see that? 15 A. It may be -- I may have looked at 16 A. Yeah, I see that. 16 it. I didn't review that one in extreme 17 When you received that document 17 detail. There were others that I've reviewed 18 and reviewed it, did you have a chance to go 18 in more detail. through all the things on there to determine 19 19 O. Okay. And there was also a 20 if you had any responsive documents? deposition transcript of Stephen Watt. Do you 20 21 A. Yes, I did. 21 remember reviewing that? 22 O. And just for the record, I've been 22 A. I was given that, but I didn't provided with a pile of documents here that 23 23 review that in detail. you reviewed in preparing your report as well 24 Okay. And finally deposition of Q. as your deposition. Is that fair? 25 Michael Witt, M.D. Page 7 Page 9 1 DANIEL A. SHAMES 1 DANIEL A. SHAMES 2 A. That is correct. 2 That also I was given but I didn't 3 Now, I'm going to go through these 3 review it in detail. The other ones, you have 4 in a moment -- strike that. other ones that I have reviewed in more 4 5 I'm going to go through these 5 detail. 6 right now, then at the end I'll ask you if 6 Did you review the deposition 7 there is anything else that you reviewed. But 7 transcript of Dr. Cheryl Bloom? I was provided, just for the record, a CD-ROM 8 8 A. Yes. 9 entitled Pfizer Viagra expert report of Daniel 9 And moving on to this other pile Q. 10 L. Shames, M.D. It's been represented to me 10 of documents that was provided to me. This 11 that on this CD-ROM are all the medical 11 one is a folder which has written on it 12 literature and the materials you reviewed that 12 regulatory -- "reg. HX labelling Viagra." 13 is referenced in your report, I believe it's 13 That's safe to say that's 14 in appendix B or appendix 2. 14 regulatory history Viagra? 15 Yes. I personally have not seen 15 A. Yes. 16 that CD, but it represents, I've been told it 16 Q. And you reviewed these documents? represents all the material that I reviewed. 17 17 A. The materials that you have there are the 18 18 I'm not going to ask you questions 19 materials that I marked up. There is some 19 about all of these documents, I'm going to 20 redundancy, because I think those materials 20 move on to a few in a moment. I want to 21 are also on the CD-ROM. 21 identify some of these for the record. 22 MS. LESKIN: Just for the record, 22 Here's a folder titled 23 what's on there are the things that are 23 "Dr. Shames's emails." Did you print these 24 cited in his expert report or cited on 24 out? 25 that attachment to his expert report as 25 A. No.

## 4 (Pages 10 to 13)

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	Page 10		Page 12
1	DANIEL A. SHAMES	1	DANIEL A. SHAMES
2	Q. I've looked through the emails,	2	citizen petitioner's." Let me hand this to
3	and I might be incorrect, but I only see that	3	you. Whatever it in black ink under there,
4	you had email correspondence with Ms. Leskin.	4	what that says.
5	A. Yes. There was one exception, I	5	A. It says citizen petitions and
6	believe I did have a correspondence from, one	6	summaries. I must say that, you know, this is
7	correspondence from Ms. Hogan regarding a web	7	my own system and may have been using it for
8	site or something. But virtually all of them	8	something else and then I — this says
9	were from Ms. Leskin.	9	original NDA vision summary, which I don't
10	c and sec an	10	think is still in this folder. But this is,
11	email from who is Ms. Hogan?	11	these were primarily the citizens petitions
12	A. Ms. Hogan is the associate, I	12	and, you know, the two citizen petitions.
13	believe.	13	Q. The ones in 1998 and 2005?
14	Q. Okay.	14	A. Right.
15	A. And also I think I have a couple	15	MS. LESKIN: Just make sure you
16	of emails from Todd Porter, who is the legal	16	don't talk over him.
17	assistant or whatever you call it.	17	MR. GOMEZ: I'm really bad at
18	Q. Did you search your own computers	18	that. Lori, feel free to let me know.
19	for the emails?	19	Q. Okay, we've identified that.
20	A. Yes. That's how	20	Another manila entitled "Bloom,"
21	Q. Did you print them out?	21	deposit, I assume that means deposition. And
22	A. I had no, I did not.	22	then ER.
23	Q. Okay. Why not?	23	A. Expert report.
24	A. Because I was having some	24	Q. Okay That's another folder.
25	trouble this was a few days ago, I was	25	Another one is, if you could just
	Page 11		
1	DANIEL A SHAMES	1	Page 13
1 2	DANIEL A. SHAMES having trouble with my printer, so I contacted	1	DANIEL A. SHAMES
1 2 3	having trouble with my printer, so I contacted	2	DANIEL A. SHAMES read that for me.
2	having trouble with my printer, so I contacted Mr. Spatz and said I'm having some trouble	2 3	DANIEL A. SHAMES read that for me.  MS. LESKIN: He just wants you to
2	having trouble with my printer, so I contacted Mr. Spatz and said I'm having some trouble with my computer my printer. Which is a	2 3 4	DANIEL A. SHAMES read that for me. MS. LESKIN: He just wants you to read what's on top.
2 3 4	having trouble with my printer, so I contacted Mr. Spatz and said I'm having some trouble	2 3 4 5	DANIEL A. SHAMES read that for me. MS. LESKIN: He just wants you to read what's on top. Q. I just want you to read what's on
2 3 4 5	having trouble with my printer, so I contacted Mr. Spatz and said I'm having some trouble with my computer my printer. Which is a home printer. And can I just forward these to you.	2 3 4 5 6	DANIEL A. SHAMES read that for me.  MS. LESKIN: He just wants you to read what's on top. Q. I just want you to read what's on the tab there.
2 3 4 5 6	having trouble with my printer, so I contacted Mr. Spatz and said I'm having some trouble with my computer my printer. Which is a home printer. And can I just forward these to you.  Q. Okay. So what you did is you	2 3 4 5 6 7	DANIEL A. SHAMES read that for me.  MS. LESKIN: He just wants you to read what's on top. Q. I just want you to read what's on the tab there.  A. What is on the tab here has no
2 3 4 5 6 7	having trouble with my printer, so I contacted Mr. Spatz and said I'm having some trouble with my computer my printer. Which is a home printer. And can I just forward these to you.  Q. Okay. So what you did is you looked at all your emails on your computer,	2 3 4 5 6 7 8	DANIEL A. SHAMES read that for me.  MS. LESKIN: He just wants you to read what's on top. Q. I just want you to read what's on the tab there.  A. What is on the tab here has no relationship to what's in the this has to
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	having trouble with my printer, so I contacted Mr. Spatz and said I'm having some trouble with my computer my printer. Which is a home printer. And can I just forward these to you.  Q. Okay. So what you did is you looked at all your emails on your computer, rather than printing them out yourself you forwarded them to Kaye Scholer, Ms. Leskin's office?  A. I have a search option, which brings up all the emails. And I went through the emails, and each one individually I forwarded.  Q. And you did that within the last few days?  A. Yes. Q. Okay.  MR. GOMEZ: Off the record. (Discussion off the record.) Q. Doctor, we've talked about the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	DANIEL A. SHAMES read that for me.  MS. LESKIN: He just wants you to read what's on top. Q. I just want you to read what's on the tab there.  A. What is on the tab here has no relationship to what's in the this has to do with my check. I took this from somewhere else, and there is no relationship between what's on there.  Q. I do it all the time. No problem.  But within this are some documents, just for the record, when I open it up is a, one entitled "feasibility assessment of a case control study to determine whether Sildenafil Viagra is an independent risk factor for NAION."  Did you print these out yourself or were these documents provided to you?  A. I believe that they were
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(Pages 14 to 17)

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Page 14

### DANIEL A. SHAMES

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Q. Doctor, I'm looking at some documents that were provided to me before the deposition that are responsive to attachment A of the notice of deposition. And I was just asking about this folder of documents, I think my specific question was, did you print these out yourself or were they provided to you by Ms. Leskin, counsel for Pfizer?

I would have to look at the 11 documents. Most of the documents I got were provided to me, but I did, I believe, look up some papers by myself and print them out. So 14 I would have to look up -- I would have to 15 look at the whole folder to see which it was.

16 Let me pass this to you. If you 17 don't mind me walking around. You stay 18 seated, doctor. I just want to hand this to 19 you.

And within this folder I've put in front of you is a copy of what we'll refer to later that's in your report, the McGwin study.

23 Do you see that?

24 Yes, I do. 25

If you could just read for me the

1 DANIEL A. SHAMES

> keep a thought in my head and then later when I go back I may not be able to read it. But that's the concept of what was in there.

Q. So people like me can ask you questions about it. I'm not going to go through every single one of your handwritings at all. Or we'd be here until tomorrow.

MR. BORG: Your profession does have a bit of a reputation about how it writes.

12 Q. Doctor, another folder here is 13 entitled CFRs, et cetera. CFR, Code of 14 Federal Regulations. And I believe you 15 listed, we'll go over those in a while when we 16 go over your report, but you did list some 17 specific CFR regulations that you reviewed?

A. That is correct.

19 Q. Would those be contained in this?

20 Do you need to see it to make sure?

21 A. Yes.

> Here you go. Q.

23 These were materials that A.

24 generally dealt with CFRs. And CFR -- and 25 information in the title CFR that might be

Page 15

Page 17

DANIEL A. SHAMES

notes here, what does that say?

A. "Selection bias."

Q. What do you mean by that?

I mean that in my view, this was a A. case cohort study, and in my view there was some bias in the selection of the cases. They did not exactly match the controls because they were taking PDE5 inhibitors, which in my view meant they had perhaps more advanced

cardiovascular disease than the controls. 11

12 That's what I meant by that.

13 Q. That's a criticism, your criticism 14 of this study?

> A. That's correct.

16 Q. And down at the bottom there is 17 some other handwriting. Can you just read 18 that for me.

19 A. I'm not sure I can read it 20 completely. But it does say aged matched. It's the same concept as this. 21

22 Q. Okay. I'm sorry, finish your

23 answer. 24

A. Often when I'm reviewing a document, I will just scribble things down to DANIEL A. SHAMES

2 related to my report or other issues here. 3

We'll go over those, I might have some specific questions later on when we go over your report. So if you just want to hand that back to me so I can keep these in order.

And I have another manila folder here with some documents inside, with for lack of a better word, I'll call them sticky notes, and your writing on them. And written on the folder is, I think I can read this, early eye labelling stuff. I can't read this, but I'll

attempt it, Wiley Chambers? A. Wiley Chambers, yes.

Q. Who is that?

16 Wilily Chambers is one of the senior ophthalmologists at the FDA who was 17

18 involved in the early interactions between FDA

19 and Pfizer regarding eye issues. In fact,

20 he's still involved in those issues. So this 21 has to do mostly, I believe, with the early

22 labelling interactions and review of material

23 that was in the original NDA, and some of the

24 materials that followed with early labelling

25 issues in the first six months or so after the

	Page 18		Page 20
1	DANIEL A. SHAMES	1	DANIEL A. SHAMES
2	drug was approved.	2	A. That sounds right, yes.
3	Q. And underneath Wiley Chambers is	3	Q. That's what the document says.
4	ERG, and then another word I can't read. On	4	I'll represent that to you. \$36,125.
5	this one, for the record, I point that out to	5	A. That is correct.
6	you. Can you read that for me?	6	Q. And then attached to this is page
7	A. ERG is electroretinogram.	7	2, is a January 31, 2009 invoice. And you
8	Q. Okay.	8	spent, I'm not good at the math, but the total
9	A. And I don't know what other word	9	for the month of January was \$5,250; correct?
10	is.	10	A. That is correct.
11	Q. Fair enough.	11	Q. Did you prepare a February
12	Doctor, I might come back to these	12	invoice?
13	and ask you some questions.	13	A. I think I did, but it may have
14	A. Okay.	14	been I think I have we were supposed to,
15	Q. But a few more folders here. This	15	what I've already been paid for, I do have a
16	one was provided to me, and the first page	16	February invoice. I can get it.
17	that I open to is your, it looks like your	17	Q. From what I understand it, is this
18	first invoice in this case dated December 30,	18	deposition was originally scheduled for
19	2008. When were you first contacted regarding	19	sometime in early February. Do you remember
20	reviewing this case?	20	that, being told that?
21	A. I believe it was in December. I	21	A. I think I recall something about
22	believe it was in December of last year, 2008.	22	this being scheduled in early February, yes,
23	Q. Your invoice begins	23	February 4th or 5th or something.
24	THE WITNESS: November?	24	Q. We're now at March 13th. Did you
25	MS. LESKIN: For the record, I	25	do any work on this case in February?
	Page 19		Page 21
1	DANIEL A. SHAMES	1	Page 21  DANIEL A. SHAMES
2	DANIEL A. SHAMES think it's two pages. There may be two	2	DANIEL A. SHAMES  A. Actually, I may not have done any
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7 (Pages 22 to 25)

Page 22 Page 24 1 DANIEL A. SHAMES DANIEL A. SHAMES 2 versus Levin. Did you read this? 2 issues. 3 A. Yes, I did. 3 Q. Okay. 4 Q. Are you going to rely on anything 4 A. My issues were simply as I went 5 in this, did you glean anything from this, 5 through expert testimony and discussions, 6 with your report, obviously this came down 6 these were issues that I felt I had to do, you 7 after your report was authored, but anything 7 know, particular research about. I mean, 8 you'd like to -brushing up on the regulations or at one time 8 9 A. I don't think it's critical to 9 Dr. Bloom's deposition may have been in there. anything. I believe that it was important for 10 10 Things that I personally thought were 11 me to understand somewhat what was in that 11 important issues in this case. 12 report. I'm not sure I can say that I totally 12 Q. Okay. And within this --13 understood the -- I can say that I did not 13 A. What's in there now may have totally understand all the legal 14 nothing to do with what I at one time thought 14 15 ramifications. were my issues. Just I happened to put it 16 And also within this folder is a 16 into that folder. But I'm not sure what's in document entitled "Federal Register," from 17 17 there right now. 18 Wednesday, January 16, 2008. 18 I don't want to get bogged down 19 Do you remember reviewing that? going through it. I might just put this 19 20 Yes. That document has to do with aside. I have a question about this document, 21 some perhaps changing of the rules regarding, 21 but I can ask it in context later. I'm just 22 surrounding issues regarding CBEs, change 22 going to move on. 23 being effected, regulations. I read it as a 23 Finally is a folder entitled 24 background, background information. 24 "Pfizer NDA." 25 Briefly, what are some of the 25 A. Revision summary. Page 23 Page 25 1 DANIEL A. SHAMES 1 DANIEL A. SHAMES 2 changes being discussed in this document 2 Q. It looks like fee/S vision 3 regarding CBEs? 3 summary. I thought that was an L. And 4 A. I believe that this document 4 summary from FDA. 5 actually states that it's not really a change, 5 Right. I don't know exactly 6 but it's putting into -- putting down in the 6 what's in that. But certainly the vision 7 regulations what has been the practice 7 summary is the portion of the -- excuse me, of 8 previously of the FDA, essentially that a CBE 8 the NDA that was submitted by Pfizer in which 9 is not the routine way that labelling changes 9 they review all the vision issues, all the 10 are created. That's done primarily through a 10 information related to vision issues. 11 supplement, prior approval supplement. So 11 Let me pass this over to you. 12 that the FDA can have an opportunity to review 12 This is a, what's entitled "Sildenafil visual 13 information that the company may have and 13 summary." 14 review wording, make sure that the wording is 14 A. Yes. properly associated with the information, with 15 15 A few questions about this 16 the data. 16 document. First of all, if you could just, 17 And that's what that document 17 there is some handwriting. Can you read that 18 talks about. 18 for me? 19 Okay. And moving on to another 19 A. "Pfizer affirmatively looked at folder, written in I believe it's your 20 vision problems in NDA. No NAION plus look at handwriting, and underlined twice, it says "my 21 21 NDA review." This is a note to myself because 22 issues." 22 I noted one of the issues was whether Pfizer 23 What does that mean? 23 was, I think maybe this was in Dr.. Bloom's 24 A. Well, I think, I'm not sure that 24 expert report, but I had the impression that 25 what's in there has anything to do with my 25 Dr. Bloom did not the think that Pfizer was

	Page 26		Page 28
1	DANIEL A. SHAMES	1	DANIEL A. SHAMES
2	aggressively looking at the vision issues.	2	company.
3	And I was looking to see, looking	3	Q. I don't want to get you in
4	at this material and other material to see if	4	trouble. Let me ask this way
5	they had adequately studied certain vision	5	A. About fifteen pharmaceutical
6	issues. So at one time I may have I had	6	companies from very large pharmaceutical
7	issues, and I put perhaps the supporting	7	companies, large multinational companies, to
8	documents under the issues. Something like	8	very small companies where there are one or
9	that.	9	two people.
10	Q. And that you would have had	10	Q. Okay. And also you mentioned on
11	strike that.	11	here that litigation departments of large law
12	What this is a response to some	12	firms.
13	of the opinions in Dr. Bloom's report?	13	A. Yes.
14	A. Correct.	14	Q. Are you consulting as an expert
15	Q. Okay. And we'll go through your	15	witness in any other cases besides this
16	report.	16	litigation, as we sit here today?
17	A. Okay.	17	A. Yes.
18	Q. But we don't need to waste time	18	Q. And which litigations would that
19	right now. I would like to keep this	19	be?
20	together.	20	MS. LESKIN: I just want to
21	Doctor, I have asked you some	21	caution and see if we can get some
22	questions about your curriculum vitae, some of	22	foundation to make sure that he's not
23	your background. On here it says under	23	if he's a consulting expert and not a
24	professional experience, October 2008 to	24	testifying expert, that is privileged
25	present, that you're the president of the	25	information. And so I think we need to
1	present, that you're the president of the	23	information. And so I tillik we need to
	Page 27	2.5	Page 29
1		1	
1 2	Page 27		Page 29
1	DANIEL A. SHAMES Daniel A. Shames Consulting, Inc.? A. Yes.	1	Page 29 DANIEL A. SHAMES
1 2 3 4	DANIEL A. SHAMES Daniel A. Shames Consulting, Inc.? A. Yes. Q. What do you do?	1 2	Page 29  DANIEL A. SHAMES  make a distinction to where he's
1 2 3 4 5	DANIEL A. SHAMES Daniel A. Shames Consulting, Inc.? A. Yes. Q. What do you do? A. I consult with primarily	1 2 3	Page 29 DANIEL A. SHAMES make a distinction to where he's supposed to be a testifying expert as
1 2 3 4 5 6	DANIEL A. SHAMES Daniel A. Shames Consulting, Inc.? A. Yes. Q. What do you do? A. I consult with primarily pharmaceutical companies on issues related to	1 2 3 4 5 6	Page 29  DANIEL A. SHAMES  make a distinction to where he's  supposed to be a testifying expert as opposed to a consulting expert. Because
1 2 3 4 5 6 7	DANIEL A. SHAMES Daniel A. Shames Consulting, Inc.? A. Yes. Q. What do you do? A. I consult with primarily pharmaceutical companies on issues related to their interactions with FDA, communications	1 2 3 4 5 6	DANIEL A. SHAMES make a distinction to where he's supposed to be a testifying expert as opposed to a consulting expert. Because that's protected information. MR. BORG: Will you carve those up?
1 2 3 4 5 6 7 8	DANIEL A. SHAMES Daniel A. Shames Consulting, Inc.? A. Yes. Q. What do you do? A. I consult with primarily pharmaceutical companies on issues related to their interactions with FDA, communications and interactions with FDA. And also regarding	1 2 3 4 5 6 7 8	DANIEL A. SHAMES make a distinction to where he's supposed to be a testifying expert as opposed to a consulting expert. Because that's protected information. MR. BORG: Will you carve those up? MR. GOMEZ: Absolutely. Let me
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	DANIEL A. SHAMES Daniel A. Shames Consulting, Inc.? A. Yes. Q. What do you do? A. I consult with primarily pharmaceutical companies on issues related to their interactions with FDA, communications and interactions with FDA. And also regarding their planning of clinical trials, their development of particular drugs. The clinical trial issues, drug evaluation issues. Kind of scientific issues. And also regulatory issues related to FDA interactions. Or proposed FDA interactions. Q. Has Pfizer retained you in that capacity? A. No, they have not. Q. What other pharmaceutical companies? A. I'm not sure I can say that. Most of them have confidentiality agreements. Q. I'm not asking you to say what	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	DANIEL A. SHAMES make a distinction to where he's supposed to be a testifying expert as opposed to a consulting expert. Because that's protected information. MR. BORG: Will you carve those up? MR. GOMEZ: Absolutely. Let me rephrase the question. Q. Have you been retained by any litigation law firms to be a testifying expert on behalf of a pharmaceutical company? A. Yes. Q. Okay. Which pharmaceutical companies were those? And I'm asking you about testifying expert, not consulting expert. A. Right. Merck, other counsel for Merck, which is Q. And what litigation is that? A. This is Q. What drug does that involve?

9 (Pages 30 to 33)

DANIEL A. SHAMES your first deposition.  What others, besides Merck? A. The other one is Roche, which is Accutane. And irritable — excuse me, inflammatory bowel disease. Q. Let me just back up to Merck. Any other drugs besides Fosamex? A. No. Q. That you reviewed for Merck? A. No. Q. Okay. We talked about Roche. Any others? A. There may be one or two others that I'm not at the point where I know I'm going to be a testifying. So I'm not sure if I'm just consulting. Q. Well, if you're not sure, that's good enough. I don't want you to have to answer that. A. Okay. Q. Have you been contacted by any plaintiffs to be an expert in any pharmaceutical litigations? A. I have not been contacted by any DANIEL A. SHAMES  Page 31  DANIEL A. SHAMES A. Yes, I founded a urology practice, a private practice in South Carolina. And dultimately hired two other urologists, and th practice was still going when I left in 1996. But I was continually in practice from the time I left the Army until I left South Carolina.  Q. So in 1996, is that when you went to work for the FDA? A. I hat is correct. Q. Okay. Tell me about that. What was your first position at the FDA? A. I was a medical officer at the for I'm just consulting. The development, in various stages, all stages of drug development. Early drug development the time when a sponsor, a company wants t complete the drug. And during this time there is usually a lot of interaction between myself  DANIEL A. SHAMES    DANIEL A. SHAMES   DANIEL A.	ge 3
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8 You were in the United States Army 7 about that when we get into your report. 8 But you were the deputy director	
You were in the United States Army 8 But you were the deputy director	
9 of DRUP?	
10 A. Yes, I was.	
Q. From 1977 to 1979? 11 Q. And what is, for a layperson, what	
12 A. That is correct. 12 is DRUP?	
Q. And you practiced urology at Fort  A. It's the division of reproductive	
Jackson, South Carolina? 14 and urologic products.	
A. That's correct. 15 O. And you were there from 2000 to	
Q. And I think I read in your report 16 2001?	
17 that you were honorably discharged at that 17 A. In that position, correct	
18 Q. Okay. And then from 2001 to 2006	
A. That is correct. 19 you were the director of the division of	
20 Q. And then you went to work for, 20 reproductive and products	
what did you do after that, there seems to be 21 DRUPP?	
22 a six year gap here between 1979 and 1985. 22 A. It's the same division	
23 Maybe it's just out of order. I see 1979 to 23 O. Same division?	
24 1996, that's where you were working for 24 A. Yes, I was the director	
25 Urology Consultants?  25 Q. The sole director at this point?	

## 10 (Pages 34 to 37)

	D 24		
	Page 34		Page 36
1	DANIEL A. SHAMES	1	DANIEL A. SHAMES
2	A. The sole	2	Q. And then you went on to do your
3	Q. I see you had shared	3	residency at the University of Pennsylvania?
4	responsibility with that before; correct?	4	A. That is correct.
5	A. Absolutely, yes.	5	Q. In Philadelphia?
6	Q. And then from 2007 to 2008, you	6	A. That is correct.
7	were the director of the division of	7	Q. 1973 to 1974, National Institute
8	gastroenterology and in borne error products?	8	of Health, postdoctoral fellow in renal
9	A. That is correct.	9	research?
10		10	
11	•		A. That is correct.
1	position?	11	Q. It says here you published
12	A. Well, I was the director, meaning	12	research in peer reviewed journals?
13	I was in charge of the scientific and	13	A. That is correct.
14	administrative and regulatory functioning of	14	Q. Have you ever published anything
15	that division. I became the director of that	15	on drug labelling?
16	division because I was actually in a higher	16	A. No.
17	position in the office, a higher supervisory	17	Q. Are you in the process of writing
18	position. And that particular division was	18	any articles as we sit here today on drug
19	having some difficulty and the senior	19	labelling?
20	management at the office of new drugs asked me	20	A. No, I am not.
21	to take that division over and help it out.	21	Q. Any articles on Viagra?
22	Straighten it out and run it for a while. I	22	A. No.
23	ran it for about a year, eight months.	23	Q. Have you ever published on Viagra?
24	Q. Okay. And then you went on to be	24	A. No.
25	deputy director office of drug evaluation 3?	25	Q. Have you ever published on
	Page 35		
1	Page 35	1	Page 37
1 2	DANIEL A. SHAMES	1	Page 37  DANIEL A. SHAMES
2	DANIEL A. SHAMES A. That is correct.	2	Page 37  DANIEL A. SHAMES nonarteritic NAION?
2 3	DANIEL A. SHAMES  A. That is correct.  Q. Okay. And along with that title	2 3	Page 37  DANIEL A. SHAMES  nonarteritic NAION?  A. No, I have not
2 3 4	DANIEL A. SHAMES A. That is correct. Q. Okay. And along with that title is the ODE 3, what's that?	2 3 4	Page 37  DANIEL A. SHAMES  nonarteritic NAION?  A. No, I have not  Q. I call it NAION, I've been told
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2 3 4 5 6	DANIEL A. SHAMES A. That is correct. Q. Okay. And along with that title is the ODE 3, what's that? A. Office of drug evaluation is ODE. Q And then it says "/CDER." Can	2 3 4 5 6	DANIEL A. SHAMES nonarteritic NAION? A. No, I have not Q. I call it NAION, I've been told that we are not supposed to do that. But for the deposition it will show up as N-A-I-O-N,
2 3 4 5 6 7	DANIEL A. SHAMES A. That is correct. Q. Okay. And along with that title is the ODE 3, what's that? A. Office of drug evaluation is ODE. Q And then it says "/CDER." Can you, for the record, what's that?	2 3 4 5 6 7	DANIEL A. SHAMES nonarteritic NAION? A. No, I have not Q. I call it NAION, I've been told that we are not supposed to do that. But for the deposition it will show up as N-A-I-O-N, but I'll say NAION.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	DANIEL A. SHAMES  A. That is correct. Q. Okay. And along with that title is the ODE 3, what's that? A. Office of drug evaluation is ODE. Q And then it says "/CDER." Can you, for the record, what's that? A. Center for drug evaluation and research. Q. Okay. And you were in that position from 2006 to 2008 when you left the Food and Drug Administration; right? A. That is correct. Q. Going to a little bit doctor, are you board certified? A. Yes, I am. Q. In what specialty? A. Urology. Q. You did your undergrad at Brandeis University?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	DANIEL A. SHAMES nonarteritic NAION?  A. No, I have not  Q. I call it NAION, I've been told that we are not supposed to do that. But for the deposition it will show up as N-A-I-O-N, but I'll say NAION.  1974 to 1977 you were at the University of Pennsylvania, urology. What did you do there at that point?  A. Well, kind of to explain. The postgraduate training in urology at the University of Pennsylvania involved six years of training. So the first two years involves basic training of general surgery and gynecology and medicine, to get one ready for your urology training. And at the University of Pennsylvania, it was required that you
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	DANIEL A. SHAMES A. That is correct. Q. Okay. And along with that title is the ODE 3, what's that? A. Office of drug evaluation is ODE. Q And then it says "/CDER." Can you, for the record, what's that? A. Center for drug evaluation and research. Q. Okay. And you were in that position from 2006 to 2008 when you left the Food and Drug Administration; right? A. That is correct. Q. Going to a little bit doctor, are you board certified? A. Yes, I am. Q. In what specialty? A. Urology. Q. You did your undergrad at Brandeis University? A. Brandeis University, yes. Q. 1963 to 1967? A. That is correct.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	DANIEL A. SHAMES nonarteritic NAION?  A. No, I have not  Q. I call it NAION, I've been told that we are not supposed to do that. But for the deposition it will show up as N-A-I-O-N, but I'll say NAION.  1974 to 1977 you were at the University of Pennsylvania, urology. What did you do there at that point?  A. Well, kind of to explain. The postgraduate training in urology at the University of Pennsylvania involved six years of training. So the first two years involves basic training of general surgery and gynecology and medicine, to get one ready for your urology training. And at the University of Pennsylvania, it was required that you spend a year in the lab doing research. That's when I spent a year in the lab doing renal physiology research. And then there is three years of

11 (Pages 38 to 41)

		II (rages 30 to 41
Page	: 38	Page 40
1 DANIEL A. SHAMES	1	DANIEL A. SHAMES
2 of one period of time that I spent in	2	It's possible it was discussed at that
3 Philadelphia at the University of	3	meeting.
4 Pennsylvania.	4	
5 Q. How did you like Philadelphia?	5	•
6 A. I liked Philadelphia.	6	these meetings?
7 Q. That's where I'm from.	7	A. Generally what is discussed is all
8 Under the next heading it says	8	the senior management people are there in the
9 "related experience and skills," it says under	9	various areas of drug development. And the
10 first bullet, "member of office of new drugs,	1	individuals discuss what the important issues
11 OND, senior management team, attended wee	10	are that week or the coming week or past week.
, the same team, attended wee	- 1	And the head of the office of new drugs,
<ul><li>briefing in which all important issues across</li><li>all drug areas are discussed."</li></ul>	12	Dr. Jenkins, is there. And so everybody at
and the discussion.	13	that meeting is kind of aware of what the
a a substitution of the su	14	large issues are.
15 was Viagra ever discussed during these	15	Q. And you said you would have been
16 meetings?  MS. LESKIN: I'm going to object	16	attending these meetings in the last two years
The Best Till going to object.	17	that you were at the FDA?
Dr. Shames is here I will wait for	18	A. Correct.
him to come back.	19	Q. So roughly in the 2006 to 2008
(Discussion off the record)	20	time frame?
(Record read as requested.)	21	A. Yes.
MS. LESKIN: The objection is, and	22	Q. Were issues discussed regarding
23 it may be that particular question, I	23	labelling of drugs that have been approved in
just want to make sure where we are	24	the past at these meetings?
here. Dr. Shames is being offered as an	25	A. Probably.
Page	39	Page 41
1 DANIEL A. SHAMES	1	DANIEL A. SHAMES
2 expert, and he's not here as a fact	2	Q. From what I understand you don't
3 witness. And there are restrictions on	3	remember specifically whether Viagra was
4 his ability to testify as a fact witness	4	discussed during the time frame that you
5 under the terms of regulations that he's	5	attended these meetings; is that what you
6 been told when he left the agency.	6	testified to?
7 So	7	A. That is correct.
8 MR. BORG: This is when he was at	8	Q. Now, from what I understand, you
9 the FDA?	9	dealt with the media?
10 MS. LESKIN: Yes. And the	10	A. Yes.
11 question was was Viagra discussed at	11	Q. For the FDA, during what time
12 these weekly meetings when he was at	12	frame that you were there?
13 FDA. I think that particular question	13	A. Primarily well, as a division
14 is general enough that it can be	14	director, and in the office primarily I
answered yes or no.	15	would say when I was the director of D-R-U-P,
MR. BORG: That's why I'm going to	16	DRUP. Primarily at that time. I dealt with
overrule the objection to that. Let's	17	media.
see what the answer is, then we'll	18	
you can answer the question.	19	\$
20 A. I might have to give a little	20	things in getting ready for this deposition
background. That I was on that group toward	1	that you did some media for the Ortho Evra
	1 7 1	
e and a second toward	21	birth control patch. Do you remember doing
22 the end in the last two years that I was	22	that?
the end in the last two years that I was there. Viagra may have been discussed, I'm	22 23	that? A. Yes, I do.
22 the end in the last two years that I was	22 23 24	that?

Page 42 Page 44 1 DANIEL A. SHAMES 1 DANIEL A. SHAMES 2 conferences, in addition to interviews. 2 employees cannot provide testimony 3 I don't recall that. 3 concerning information acquired during 4 Q. During your tenure at the FDA, did 4 the course of their official duties. 5 you ever work on the drug Viagra? 5 So you could ask him what his 6 Yes, I did. 6 report is based on, and he can tell you 7 What did you do when you were at Q. 7 what it's based on. But it's not based the FDA in terms specifically to Viagra? 8 8 on his role within the FDA. 9 MS. LESKIN: Objection. He's not, 9 MR. BORG: That sounds fair 10 again, he is not here as a fact witness. 10 enough. 11 And there are restrictions on his 11 MR. GOMEZ: I don't want to get 12 ability to testify about facts learned 12 the doctor in trouble. 13 during the course of his employment at 13 MR. BORG: I know you don't. Part 14 FDA. of this is getting educated as to what 14 15 MR. BORG: What do you have to say 15 he is able to do under his obligations. 16 about that? 16 MR. GOMEZ: Let me ask one more 17 MR. GOMEZ: Judge, he gives a lot 17 question. 18 of opinions in his report on the 18 Doctor, please don't answer it labelling, the interactions between 19 19 until your -- Ms. Leskin has had a chance to 20 Pfizer and the FDA. Maybe I should just 20 object. 21 focus my question to that. 21 During your time frame at the FDA, MR. BORG: Why don't you do that. 22 did you ever discuss Viagra and its adverse 22 Q. Dr. Shames, when you were at the 23 events or labelling with any representatives 23 FDA, as you know in this case one of the 24 from Pfizer, whether it be through issues is regarding the labelling of Viagra in 25 25 correspondence, email, any sort of Page 43 Page 45 1 DANIEL A. SHAMES 1 DANIEL A. SHAMES terms of NAION. When you were there, did you 2 2 communication? 3 ever participate, in your capacity, whatever 3 MS. LESKIN: Are you just asking 4 it was, on that issue? 4 him did he discuss and not what was 5 MS. LESKIN: Objection. Again, 5 discussed? Correct? 6 his report is based on documents that 6 MR. GOMEZ: At this point, yes. 7 he's reviewed, and you can ask him 7 MS. LESKIN: So that's a yes/no 8 specifically what his opinions in the 8 question that I think you can answer. 9 report are based on. But there are 9 A. Yes. ethical and restrictions that he has 10 10 Who did you talk to? Q. 11 been given that he's been told that he 11 Well ---12 is not allowed to testify as to facts 12 MS. LESKIN: Again, he is just learned in the course of his employment. 13 13 asking the identification. 14 And we are not offering him for that 14 Actually in reality I'm not sure I 15 basis. can remember. There were many meetings, I 15 16 MR. BORG: Well, is your objection can't remember the names of the people. The 17 a privileged objection? 17 regulatory people at Pfizer. I mean, if you, 18 MS. LESKIN: Yes, on behalf I perhaps if you had those names I might 18 guess of the FDA, the FDA has instructed 19 19 remember. But there were, over the years 20 him not to provide testimony about facts 20 there were different regulatory people. And 21 learned. And I have information he was 21 the main interactions were years ago. So I 22 given when he left, and we can mark this 22 don't remember the specific names. 23 as an exhibit, a summary of 23 Let me ask this: Yes or no, did 24 post-employment restrictions. And one you discuss with any representatives from 25 of the things he was told is former 25 Pfizer the issue of NAION?

13 (Pages 46 to 49)

Page 46 Page 48 1 DANIEL A. SHAMES 1 DANIEL A. SHAMES 2 MS. LESKIN: Again, that could be 2 after 2005 on the issue of whether or not a 3 answered yes or no. 3 pharmacoepidemiological study should be A. I'm trying to think. But there 4 4 performed, were you participating in those 5 were obviously there were written 5 calls? 6 communications. 6 A. Some of them, yes. Some. I don't 7 And those would be reflected in Q. 7 think I - I think I may have participated in 8 Pfizer's internal documents and in the FDA's 8 some of them. 9 documents on Viagra? 9 Did you indicate if your expert Q. 10 If you're talking about written 10 report whether you participated in those communications, then yes. I mean, that counts 11 11 calls? 12 as -- yeah. Yes. 12 A. In my expert report? 13 O. And if I wanted to look at those I 13 Yes. There is a section on that Q. 14 could go find those and look at them? 14 very timeline. There are telephone 15 Yes. Well, you have most of them. conferences mentioned. Did you mention in 15 16 Right. your report, and we'll get to it in a moment, 17 Besides correspondence, any but did you ever mention that you had been on Q. 17 conversations with representatives from 18 18 those calls? 19 Pfizer, yes or no, on the issue of Viagra and 19 A. I don't think I mentioned in my 20 NAION? 20 report whether I did or didn't. 21 I believe there were T-cons, A. 21 But you're testifying now that you 22 telephone conversations in which I 22 were on those calls; correct? participated. I cannot recall if I 23 I'm testifying that from the specifically said anything, but I may have. 24 documents that I reviewed and the list of So probably. There were T-cons where I was 25 people involved in some of those T-cons, my Page 47 Page 49 1 DANIEL A. SHAMES 1 DANIEL A. SHAMES there and Pfizer people were there. And so 2 name was there. 3 maybe. Or possibly. 3 Q. Okay. Do you have any independent Q. Okay. Let me ask you this: When 4 recollection of -- strike that. 4 5 was the first T-con meeting, teleconference 5 In authoring your report, did you 6 meeting you had with Pfizer on the issue of 6 base any of your opinions on what you remember 7 NAION and Viagra? Just when was it. 7 was said during those telephone conferences, A. I don't believe -- let me think. 8 8 or do you base it upon documents that you 9 I don't believe there were any communications reviewed that summarized those telephone 9 10 before 2005. 10 conferences? Do you understand my question? 11 Q. There were no communications where 11 A. Yes. I base it on those 12 you were involved, or -- is that your 12 documents. 13 testimony? 13 Okay. Besides that timeline, 2005 14 A. Yes. 14 through 2008, on the issue of the studies, do 15 Okay. How many teleconferences 15 you remember any other specific issues that 16 did you participate in with representatives you talked about with Pfizer regarding Viagra 16 17 from Pfizer regarding Viagra and NAION? 17 and NAION? 18 A. I can't recall how many. I 18 MS. LESKIN: Objection. I think believe that the information I reviewed 19 19 that goes to information he learned 20 correctly reflected the T-cons that were 20 during the course of his employment. 21 involved. But the information that's 21 MR. BORG: I'll sustain that. 22 available. 22 MR. GOMEZ: Okay. 23 Q. We will get into that in more O. Let me ask it this way, I'm not 23 24 detail later. Are you specifically referring, going to ask you what was discussed, but were 24 25 for example, to the T-cons that took place 25 there other issues that you discussed with

Page 50 Page 52 1 DANIEL A. SHAMES 1 DANIEL A. SHAMES 2 Pfizer regarding Viagra and NAION? detail right now because I'll ask you about it 2 3 Besides --3 in your report. Correct? 4 Besides the feasibility of a study Q. 4 Or not. A. 5 and the FDA's request to do that, that you 5 Q. Okay. Absolutely. 6 discuss in your report, are there any other 6 And Viagra was approved for use in 7 issues? 7 1998; correct? 8 MS. LESKIN: That's a yes/no 8 That is correct. A. 9 question. 9 Q. Now, to go back to the question 10 Quantify it numerically, yes or no that you asked me that I asked you that I 11 and then how many. 11 didn't understand, were you involved with the, 12 May I rephrase your question or 12 yes or no, were you involved with any of the 13 can you? Were there other issues beside the 13 safety aspects of the approval process for study issue, the observational study issue, 14 Viagra? the epidemiologic study issue, yes. 15 15 A. No. We're talking about the 16 Okay. How many other different Q.. original, we're talking about what the initial 16 issues? Again, I'm not asking what they are, 17 17 NDA approval? just how many were there. 18 18 Q. Yes. 19 Maybe one other issue. A. 19 The answer is no. A. 20 And you first went to work for the 20 What about any of -- let me give a Q. 21 FDA in what year, 1996? 21 time frame. 1998 to 2001, any post-marketing 22 Correct. A. 22 safety issues, were you involved with 23 Q. Were you involved in any way with 23 evaluating that, yes or no? 24 the approval process of Viagra? And Viagra 24 I can't really recall that, was approved in 1998; correct? 25 25 honestly. Was I involved in that? Between Page 51 Page 53 1 DANIEL A. SHAMES 1 DANIEL A. SHAMES 2 MS. LESKIN: Again, that's a yes 2 what years did you say? 3 or no question? 3 Q. 1999 to 2001. 4 MR. GOMEZ: Yes. 4 Now it's '99 to 2001? Yes, the A. 5 Yes or no, were you involved with 5 answer is yes. 6 the approval process of Viagra? 6 Q. Same question for the time frame 7 Can you define approval process? A. 7 up, 2001 to 2005? 8 Q. Why don't you tell me, what goes 8 Yes. A. 9 into --9 Were you --Q. 10 A. Let me say this, and then answer 10 Involved, yes. 11 that. The drug was not approved in the 11 In what capacity were you Q. 12 division which I resided. It was approved in 12 involved? a different division. The answer is yes. 13 13 A. Well, for much of that I was --14 MS. LESKIN: Do you remember the for much of that I was the supervisor or the 14 15 question? director of that division. So I had general 15 16 MR. GOMEZ: Yes, I think I do. 16 supervisory responsibility, authority and 17 Q. Why don't you tell, for a knowledge about safety issues. 17 layperson, what's the first step in having a 18 18 When you were head of that 19 drug approved? division regarding safety issues at the FDA, 19 20 A.. The first step in having a drug 20 how many people worked under you? 21 approved is getting permission to test the 21 My direct reports were 40 or 50. 22 drug in human beings. 22 O. 40 or 50 individuals? 23 Okay. And eventually the drug is 23 Directly. Let me explain that. 24 approved by the FDA; correct? After numerous The FDA is sort of a matrix organization. So 24 other things happen. I don't want to get into 25 the divisions, the drug divisions have the

15 (Pages 54 to 57)

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	Page 54		Page 56
1	DANIEL A. SHAMES	1	DANIEL A. SHAMES
2	medical officers and the toxicologists and	2	
3	certain other people. But there are other		reviewed, and my knowledge, general knowledge,
4	people, clinical pharmacologists,	3	there were initially a lot of concern about
5	statisticione sofeta a la l	4	cardiac issues and interactions between Viagra
	statisticians, safety people, who are not	5	and cardiac drugs. Those were big, I think,
6	directly under the supervision of the	6	initial issues, big burst of issues.
7	director. However, the director supervises	7	Q. Okay.
8	the projects that the teams that they're	8	MS. LESKIN: Can we take five
9	involved with.	9	minutes, we have been going about an
10	So it's sort of direct	10	hour.
11	responsibility, 40 or 50, and indirect	11	MR. BORG: Okay, five.
12	responsibility for a lot more for projects	12	(A recess was taken.)
13	involving a lot more people.	13	(
14	Q. You mentioned in your report, I'll	14	
15	ask you more detail later, but you talked	15	
16	about there was a team of people involved with	16	
17	the Viagra, in terms of monitoring for safety	ł	
18	issues. How many individuals are deal.	17	
19	issues. How many individuals worked on Viagra specifically?	18	
20		19	
	A. A lot of people at one time worked	20	
21	on Viagra.	21	
22	Q. Maybe I could	22	
23	A. Ten, fifteen. People who worked	23	
24	on it at one time, ten or fifteen or twenty.	24	
25	Viagra was, and maybe perhaps still is, a very	25	
1		1	
ı	Page 55		Page 57
1	_	1	MR BORG: Mr Gomez your last
1 2	DANIEL A. SHAMES	1 2	MR. BORG: Mr. Gomez, your last
ı	DANIEL A. SHAMES high profile drug. There was a lot of	2	MR. BORG: Mr. Gomez, your last question? Tell me everything you said. I think
2	DANIEL A. SHAMES high profile drug. There was a lot of publicity about it. There was a lot of	2	MR. BORG: Mr. Gomez, your last question? Tell me everything you said. I think Ms. Leskin wants to put something on the record.
2 3	DANIEL A. SHAMES high profile drug. There was a lot of publicity about it. There was a lot of publicity when it was approved. There were a	2 3 4	MR. BORG: Mr. Gomez, your last question? Tell me everything you said. I think Ms. Leskin wants to put something on the record.  MS. LESKIN: We are going to mark a
2 3 4	DANIEL A. SHAMES high profile drug. There was a lot of publicity about it. There was a lot of publicity when it was approved. There were a lot of safety issues in the public eye when it	2 3 4 5	MR. BORG: Mr. Gomez, your last question? Tell me everything you said. I think Ms. Leskin wants to put something on the record.  MS. LESKIN: We are going to mark a document from the Department of Health and Human
2 3 4 5	DANIEL A. SHAMES high profile drug. There was a lot of publicity about it. There was a lot of publicity when it was approved. There were a lot of safety issues in the public eye when it was approved. So it required a lot of	2 3 4 5 6	MR. BORG: Mr. Gomez, your last question? Tell me everything you said. I think Ms. Leskin wants to put something on the record.  MS. LESKIN: We are going to mark a document from the Department of Health and Human Services Office of the General Council Ethics
2 3 4 5 6 7	DANIEL A. SHAMES high profile drug. There was a lot of publicity about it. There was a lot of publicity when it was approved. There were a lot of safety issues in the public eye when it was approved. So it required a lot of attention. And person power.	2 3 4 5 6 7	MR. BORG: Mr. Gomez, your last question? Tell me everything you said. I think Ms. Leskin wants to put something on the record.  MS. LESKIN: We are going to mark a document from the Department of Health and Human Services Office of the General Council Ethics Division entitled "Summary Of Post Employment
2 3 4 5 6	DANIEL A. SHAMES high profile drug. There was a lot of publicity about it. There was a lot of publicity when it was approved. There were a lot of safety issues in the public eye when it was approved. So it required a lot of attention. And person power. Q. Define for me a high profile drug.	2 3 4 5 6 7 8	MR. BORG: Mr. Gomez, your last question? Tell me everything you said. I think Ms. Leskin wants to put something on the record.  MS. LESKIN: We are going to mark a document from the Department of Health and Human Services Office of the General Council Ethics Division entitled "Summary Of Post Employment Restrictions January 2008" that we referred to
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Page 58 Page 60 1 (Expert report marked Shames Exhibit 2 had been working on some litigation with some 2 for identification.) 2 colleagues of mine, colleagues meaning former FDA 3 A Right. That should be correct, yes. 3 people who were working in this area, who were 4 Yes. 4 working on certain cases, and I think Mr. Hoffman 5 MR. GOMEZ: Okay. Do you need a copy? knew some of them and might have said -- basically 5 6 MS. LESKIN: I do. Do you have one? I think Mr. Hoffman got my name through somebody 7 Oh, wait, I have one. 7 else and referred me to Ms. Leskin. I believe 8 BY MR. GOMEZ: 8 that is what happened. I never met Mr. Hoffman 9 Q Now, Doctor, you authorized this report? 9 previously. 10 Α Yes, I did. 10 Q Okay. I assume there was an initial Did you write it yourself? 11 Q meeting that you sat down and met with the 11 12 Α Yes, I did. 12 attorneys for Pfizer. Do you remember when that 13 Q How many drafts of this report did you 13 was? have before it was finalized? 14 A I don't remember exactly when it was. 15 A It was a -- define drafts. 15 Q How many meetings did you have 16 Q Sure. face-to-face leading up to the authorship of your 16 17 When you first started writing the report with the attorneys from Pfizer? 17 18 report, I assume there came a time when you 18 A I don't think I had many meetings before finished and forwarded it to Ms. Leskin in written 19 the authorship, one or two. I haven't had that 20 form. Did you ever do that and then make any many meetings altogether. One or two, I can't 20 21 changes? 21 22 A I did not make any drafts and forward 22 Q I was provided before the deposition, 23 them to Ms. Leskin. The process, I did not do 23 and you also reference in your report the 24 that. materials that you reviewed regarding your report. 24 25 Q I am not trying to imply there is 25 Who provided you with those materials? Page 59 Page 61 anything wrong in doing that, I just want to know A They were primarily provided to me by 1 2 besides the one I have here today that was 2 Ms. Leskin, her law firm. 3 produced to us, are there any other written 3 Q How were they sent to you? versions of this report that you have on your 4 4 Α Federal Express. computer or in your possession? 5 Was there a cover letter with them? Q 6 A No. I -- it was an iterative process. 6 There probably was. I don't recall it Α 7 Q Besides Ms. Leskin, are there any other 7 was. 8 attorneys at Kaye Scholer, any other attorneys for 8 If there was, would that be in your Q 9 Pfizer that you sat down and met with in person 9 file? 10 prior to writing your report? 10 It should be. 11 A I can't tell you the exact time. There 11 I might have missed it because --12 were other attorneys that I have met with here A I think there are some in there. There 12 during the course of this process, Mr. Spatz and 13 are some letters. Everything -- everything -- you 14 Ms. Hogan. And at one point I met with Ms. Leskin 14 should have everything. 15 and another attorney in Washington, I believe 15 Q Okay. I might have missed it. I did Mr. Hoffman. I think I had written my report 16 not see any cover letter in the documents that I 16 17 essentially by that time. 17 reviewed --18 Q I saw an e-mail from Ms. Leskin to you. 18 A Okay. 19 It might have been the first e-mail that mentions 19 Q -- prior to today. If you could just 20 that she got your name from Mr. Hoffman. Do you check your files to see if there is one. 20 21 remember that e-mail? 21 A Okay. 22 A I think I remember the e-mail, yes. 22 Q And if there is one, could you provide .23 How did you know Mr. Hoffman? Q 23 it to us? 24 A I didn't know Mr. Hoffman. I was -- I 24 MS. LESKIN: Follow it up with a letter.

25

25 think -- I believe what happened is Mr. Hoffman

MR. GOMEZ: Sure.

17 (Pages 62 to 65)

Page 62 Page 64 1 BY MR. GOMEZ: Writing this Report," and rather than go into 2 Q You said a portion of the documents or 2 those, I will pass over those, we went over those 3 materials that you reviewed that helped you author 3 in your CV, correct? 4 your report were provided by attorneys for Pfizer. 4 A Yes. 5 What specific documents did you go get on your own 5 Q Okay. Then Section 1.1 is entitled "The 6 that helped you write your report? following list of items was reviewed in 7 A I think I looked -- I primarily looked 7 preparation for this expert report." at some websites, looked at the FDA website as 8 Going down to the last bullet, it says 9 some background -- for some background material. 9 "Information and experience accrued by myself from 10 I can't recall, for example, the pharmacovigliance my career at the FDA and OND evaluating and 10 11 guidance and some of the other guidances may have 11 supervising the Office of the Safety and Efficacy 12 been provided to me, but I also went to the FDA 12 of Drugs during their entire life cycle from website to look at them and I went to the GAO 13 13 preclinical to post marketing." 14 website ---14 What other drugs are you talking about 15 Q I am sorry, what is that? 15 there? Would Viagra -- I am sorry. 16 A General Accountability Office regarding 16 A Okay. What other drugs? Well, to 17 the report, the report regarding the function of 17 start, I was the director of this reproductive and 18 the FDA. And I went to the Institute of Medicine urologic drugs, so I -- at the time, I had 18 19 websites because they had a report on the FDA. 19 experience with drugs that were used primarily by 20 Q Any documents that you got from these urologists and gynecologists, but I -- you know, websites that you relied on in forming your 21 21 lots of drugs, some of which I can mention, some 22 opinions, they would have been cited in your 22 of which I can't. A lot of contraceptives, drugs 23 report, correct? for reproductive technology, some drugs for 24 A I didn't cite -- well, I think -- I prostate cancer, drugs for incontinence, drugs for 25 think we cited the GAO and the Institute of menopausal -- treatments for menopausal symptoms Page 63 Page 65 Medicine Report, I think, but I know we have said and sexual dysfunction, other -- those -- those --1 2 that I looked at those websites. I sent e-mails 2 most a lot of these are drugs that are still under 3 asking what -- you have e-mails that say that I 3 development, but those are the kind of drugs that 4 cited those reports, those websites. 4 I had experience with. 5 Q Did you ever speak to anybody at the 5 Q On Page 4 of your report, you said that 6 FDA, have any conversations or written 6 the two major organizations within the FDA that 7 communications regarding your opinions that are in 7 are pertinent to your expert report are the Center 8 your expert report? 8 for Drug Evaluation and Research. I am sorry, 9 A No. 9 within that, the Center for Drug Evaluation and 10 MS. LESKIN: Since leaving? 10 Research, two offices which are pertinent to your 11 Since leaving the FDA? Q 11 report, the Office for New Drugs, the OND, and the 12 Α No, I did not. Office of Surveillance and Epidemiology, the OSE. 12 13 Q Now, you did not review any of the 13 Do you see that? medical records of the plaintiffs in this case, 14 A Yes. 15 correct? 15 Q The OSE was previously named the Office 16 A No, I did not. 16 Of Drug Safety, correct? 17 Q And we went over the depositions that 17 A That is correct. 18 you reviewed, correct? 18 Q Which of these did you work in? Which 19 A Yes, that is correct. 19 office? 20 Q Previously? 20 A Office of New Drugs. 21 (No response). 21 Q Now, what is the difference between the 22 Q I want to go to your report and start two, the Office of New Drugs and the Office of 22 23 talking about your opinions. 23 Surveillance and Epidemiology? 24 On Page 2 of your expert report is a 24 Well, the Office of New Drugs is the 25 section titled "Your Qualifications of Expert organization that has primary responsibility for

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Page 66

overseeing the development of the drugs for sure.

Q Okay. That would be, for example, the development of the drugs which would lead up to an end date of approval; is that a fair statement?

A No. It was at least that, but it was more than that. They also had responsibility in post marketing, and they had responsibility to evaluate safety.

Q Okay.

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10 A The other, the Office of Safety, or SA, 11 had primary responsibility -- their total focus 12 was on evaluating safety, technical aspects of accumulating the information and looking at the 14 information, but there was a dual responsibility. 15 in these two offices.

Q Okay. While you were working at OND, were you involved in any of the safety and post 17 marketing issues?

MS. LESKIN: Generally?

MR. GOMEZ: Generally, yes.

A Generally, yes.

Q On that topic, you write in the last 22 23 paragraph, it says, "Once the product is marketed OND, it has the responsibility regarding the

25 oversight of the continued safety of the drug in

Page 67

the marketplace." Did I read that correctly? Α Yes.

Q Okay. And then the responsibility for the oversight of safety in the post marketing period is shared equally with OSE, correct?

A Correct.

Turning to Page 5, you write that "After a drug is approved and marketed, staff at OSE and OND gather information regarding safety as the drug is used in the marketplace. This process is called pharmacovigilance."

Can you define for me what pharmacovigilance is?

A Saving and data gathering activities related to the collection, assessment and understanding of adverse events.

17 Q I think I asked this earlier, and I am 18 going to come back. We will talk a little bit 19 about safety signals. I am going to show you 20 another document, so I am not going to be repetitive because I want to move along, but going 21 down to the middle paragraph, I think it is the 22 second full paragraph, it says "Staff at OND and 23

24 OSE who have responsibility for Viagra are

25 continuously monitoring adverse events."

Page 68 1 A Excuse me, what paragraph are we on?

2 Q I am sorry. On Page 5, the one that 3 begins "The main sources," which would be the 4 second full paragraph.

A Yes.

6 Q I will repeat, "Staff at OND and OSE who 7 have responsibility for Viagra are continuously 8 monitoring adverse events."

How are they doing that? How do they continuously monitor adverse events? A Well, there is a -- there is a system

12 called the Adverse Events Reporting System in 13 which events are sent to the FDA from various 14 sources, often drug companies or from other 15 sources. They get inputted into this system, they 16 get analyzed. Well, they get coded and put into 17 the system, and various people have access to this 18 system, both the safety people and many times even 19 the new drug people.

20 And they are looking at -- you know, 21 they are assigned to certain drugs, the safety 22 people are, and so are the new drug people, and 23 they are looking for what kinds of adverse events 24 accumulate in this database, and they are also 25 looking at -- besides the adverse events, they are

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looking at their -- they are looking around for literature reports or other reports that might bear on the safety of a particular drug.

Q Okay. So, for example, if there is a report of a serious condition in a medical journal, is that considered an adverse event?

A It is.

Q Even though it is not reported by the drug company?

10 A It is considered something to look at in determining if there are safety issues, yes. 11 12

Q And I believe --

13 A Ultimately, usually, those are, in fact, 14 sent in. Those -- those are reported. They --15

Q They could be reported from more than one source?

Α Yes.

18 Q And the reporting of these adverse events and any responsibilities to follow up are 19 20 governed by CFR 314.80, correct?

A Yes -- in post marketing?

22 Q Yes..

23 A I believe it is, yes.

24 Q I will show you that a little later. I 25 want to get into that, but I want to move along

19 (Pages 70 to 73)

Page 70 Page 72 1 now. 1 responsibility to investigate adverse events as 2 If there is adverse event in a study, 2 well as the drug company. 3 for example, a report of NAION in a study, all 3 Q Who would be better equipped to 4 caps, does a drug company have a responsibility to 4 investigate adverse events, the FDA or the 5 investigate that in one of their studies, for 5 sponsored drug company, in your opinion? 6 example, if it comes from a physician? 6 A It depends on the circumstances. 7 MS. LESKIN: Objection, vague. 7 Q What circumstances? Give me an example. 8 MR. BORG: I am sorry, the objection is 8 The FDA has -- I think they are both 9 what? 9 well equipped to investigate adverse events. Both 10 MS. LESKIN: It is a form objection, it 10 are well equipped. 11 is vague. 11 Q Equally equipped, is that -- I mean, 12 MR. BORG: Do you understand the 12 when you say they are both well equipped, I am 13 question? 13 assuming you mean equally? 14 THE WITNESS: No, not exactly. 14 A The FDA -- I have to answer -- that 15 Q I will repeat. 15 would have to be answered in a specific 16 If the FDA receives a report of adverse 16 circumstance, but they are both well equipped to event from a physician, for example, what do they 17 investigate adverse events, and they are both 18 do with that? Do they inform the drug company? 18 charged -- well, both charged with investigating 19 A I believe if they -- yes. I think they adverse events. The CDER mission statement says 19 20 usually try to inform the drug company about 20 that we are providing save and effect -- we have adverse events that they receive independently. 21 the responsibility to provide save and effective 22 That is my understanding. It may not be a 22 drugs to the public, and the entire time I was 23 continuous process, but I believe that is how it 23 there, safety was an important priority. 24 works. 24 Q Let me do a little housekeeping on this 25 Q If an adverse event is reported in a 25 expert report. I want to point your attention Page 71 Page 73 medical article, does the drug company have an 1 before I go back and ask some more specific 2 obligation to investigate that? 2 questions to your Section 5, "Summary and 3 A As much as possible. 3 Conclusions." 4 What do you mean by as much as possible? 4 Could you go there. I think it is on 5 A They may not have access to the 5 Page 16. 6 information directly as opposed to when they get 6 A Right. 7 information from a physician, say, access in terms 7 Q Okay. Let me go down to under 5.2, of who the patients are, can they talk to the "Conclusions." You write, "Erectile dysfunction 8 patients, but the drug company will make 9 is a serious condition usually caused by whatever -- some kind of good faith effort. They 10 underlying organic disease which causes great are supposed to make some kind of good faith 11 distress among men and their partners, often with 12 effort to investigate whatever adverse events come 12 grave consequences to relationships." Viagra, an 13 to them by whatever route. 13 extremely effective therapy for ED, is used by 14 Q When you say supposed to make a good 1.4 tens of millions of patients in the United 15 faith effort, under what authority? 15 States." 16 A The CFR. 16 Is that one of your opinions in this 17 Q What authority binds them to do that to 17 case? 18 make a good faith effort? 18 Α One of my --19 A I think the CFR 314. 19 Q Yes? 20 Q Okay. It is the responsibility of the 20 This paragraph? Α drug company to investigate adverse events, not 21 21 Q In your expert report? 22 the FDA, correct? 22 Α Yes, I agree with that. 23 A That is not correct. 23 Okay. What is your basis for this O 24 Q Why not? 24 opinion? Go ahead. 25 Because I think the FDA does have a 25 My basis for the opinion that this

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1 causes great distress and emotional problems, I

2 was a practicing urologist for many years. At

3 that time I was familiar with the literature

regarding erectile dysfunction. I was a urologist

4 5 before that era. Many patients were willing to go

6 through extreme therapy to correct their erectile

7 dysfunction, such as having surgery, such as

8 injecting themselves in their penis in order to 9

have erections.

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I spoke many, many times with men and their partners regarding this problem, and it is clear that this caused a lot of distress. It is public information. There have been advisory committees subsequently, public information advisory committees on drugs for erectile dysfunction in which experts stated that they had patients that would rather die literally than not have their erections. So I believe that condition does cause significant distress, and it is a major emotional and psychological issues to lots of patients and their partners.

Q Okay. Turning over to Page 18, you give an opinion that Viagra did an appropriate job in the post marketing period in terms of

25 pharmacovigilance regarding adverse events. That 1 That is another one of your opinions, 2 correct?

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Α That is correct.

4 Q Going back to Page 17, one of your 5 opinions in this case that "The initial approved 6 labeling for Viagra was found to be adequate by 7 the FDA. The FDA will reject the entire 8 application for approval if the labeling is deemed

9 false or misleading. The sponsor conducted 10 insufficient testing or the risk of therapy

11 outweighs the benefits."

So one of your opinions in this case is 13 the initial approved labeling for Viagra was adequate, correct?

> Α That is correct.

Q Okay. And that another one of your opinions is that the data submitted to the FDA for initial approval of Viagra by Pfizer and the evaluation of that material by FDA reviewers met the standards regarding safety, efficacy and appropriate risk benefit assessments to allow marketing of Viagra in the United States?" That is another one of your opinions in this case, correct?

That is correct.

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is one of your opinions in this case, correct?

That is correct.

Q Another opinion in this case is "The oversight by the FDA of the post marketing vision safety issues was appropriately rigorous and included active participation of FDA's ophthalmologic expert. This oversight resulted in adequate labeling modifications regarding vision. These included 1998 changes based on Pfizer's clinical pharmacology trials examining vision effects and reviewed by FDA's Chief of Ophthalmology and a 2005 labeling based on the accrual of Pfizer adverse events and requested by the FDA as a prior approval supplements."

That is another one of your opinions in this case, correct?

17 A Correct. 18 Q Another one of your opinions in this 19 case, and I read from your report on Page 18, 20 regarding the interactions between the FDA and 21 Pfizer pertaining to the discussions regarding 22 labeling and observational trials, "I believe 23 these interactions were appropriate and the time 24 frames were consistent for these types of 25 activities."

1 Q Doctor, we know in July of 2005, the label for Viagra was changed to reflect in a broad 3 sense NAION, correct?

A Yes.. July 2005.

5 We can agree on that?

One of the sections where the label was changed was the section under precautions. I think it is under the precautions of patient 10 information?

> Α That is correct.

What is the standard under the regulation that you cite in your report to change the precaution section of a pharmaceutical label?

A The standard for that particular section 16 at that time was that the adverse event was reasonably associated with the use of the drug.

18 Q Okay. In July of 2005, the change of 19 the label to the precaution section indicates that 20 there was a reasonable association between Viagra 21 and NAION, correct?

22 A Correct.

23 What is the standard to change the 24 warning section of a label in July of 2005 based 25 upon the regulations that you reviewed?

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A You know, I don't know if I know, but I would -- I believe warnings would require something like it might involve some causation issue. I don't know what they were before. I know currently a warning would require some reasonable evidence of, I think, causation. Let's see, reasonable evidence of a causal association. that is the current standard.

Q Okay.. Going back to the 10 pharmacovigilance.

Yes.

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12 You defined that earlier. What is a O 13 signal?

A A signal, a safety signal?

Q Yes. What is a safety signal?

16 A A safety signal is a concern that that adverse event might occur more frequently than 17 18 would be expected in a particular population.

19 Q Okay. Generally, if there is a signal, 20 what is the responsibility of the drug company at 21 that point?

22 A To investigate the information if 23 they -- if -- to investigate.

24 Q Okay. To investigate a drug company on 25 their own conduct, a pharmacoepidemiological

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Q They could do a survey, that is another thing a drug company could do, correct?

A They could do these things, but I do not believe that they would do these things unless they evaluated the safety signal in other more pertinent ways, which are, for example, a safety signal. They would -- a safety signal, someone might be concerned because there were a series of events, good events and good cases.

10 I believe the first thing they would do 11 before they did a pharmacoepidemiological study. which is a big deal, or any other thing, they 12 13 would try to assess whether there was -- put things in context, for example. Put things in 15 context to determine whether they thought there needed to be further investigation, how strong is 16 17 the signal, there are weak signals and strong 18 signals, how strong is a signal.

19 They also might investigate second things like biological plausibility. They might 20 21 do mechanistic studies before they went ahead 22 doing a large pharmacoepidemiological study. They 23 could do animal studies. They would do a lot of things before they would move on to do an 24 25 epidemiological study.

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study, correct, generally, to determine if there is some sort of relationship that would require changing the label; is that a fair statement?

A You don't need -- I don't quite understand.

Q Sure.

You don't need a -- what do you need to change a label? You don't need a

pharmacoepidemiological study to change a label. That is not my question. If there is a

10 11 safety signal --

A Yes.

13 Q -- do you agree with me that on their own, a drug company can conduct a 15 pharmacoepidemiological study to further 16 investigate?

17 Well, I don't think they would do that. 18 There are other ways of looking at a safety 19 signal.

20 Q I understand that. But my question is: 21 They could on their own conduct a 22 pharmacoepidemiological study to further 23 investigate, that is one of the things that they

24 could do, correct? 25

They could do that.

1 Q Okay. In this case, we had a change to 2 the precautions section of the Viagra label in 3 July 2005, correct? 4

A Correct.

Yes. O

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MERRILL LEGAL SOLUTIONS

Subsequent to that, and you talk about this in your report in a lot of detail, the FDA contacted Pfizer about doing a study on this issue of Viagra and NAION, correct?

That's correct.

11 Q Okay. Would you agree with me that the 12 reason the FDA asked Pfizer to do this study after 13 the change to the label is for safety issues?

14 A Well, for safety issues. They asked 15 them to investigate to further investigate the 16 safety issue, correct. 17

Q Because they want to know if there is a safety issue, correct?

Α Yes.

20 Q In your opinion, was there a signal, a 21 safety signal regarding NAION and Viagra? 22

MS. LESKIN: Is there a specific time?

23 When are we talking about?

24 When do you think there was a safety Q 25 signal regarding Viagra and NAION?

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A I think that from the information that I have read, you know, all of this information, I think certainly by -- I believe there was a weak signal by February 2005.

Q When you say there was a weak signal by February 2005, what did you review specifically? What did you review to form the basis of that opinion?

9 A I reviewed all of the PSURs, among other 10 things.

Q I am sorry to interrupt you. For the 12 layperson, what is a PSUR?

A Periodic Safety Update Report.

Okay.

A These are reports in which a sponsor 16 evaluates all of the safety issues either quarterly or twice a year, depending upon the 18 situation. I reviewed those reports, I reviewed 19 additional reports that Pfizer generated, kind of 20 summary reports regarding safety. I reviewed 21 Pfizer's reports that were sent to the FDA in 22 response to FDA's inquiries regarding the label regarding the information that they had about 24 their clinical trials, information regarding their

animal studies, information regarding kind of

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1 Q For example, I think you refer to them 2 in the documents that you reviewed of 3 Dr. Pomerantz's abstract in October 2000 of two 4 cases of NAION at that point, correct?

A That is correct.

Q And you would agree with me that NAION is a serious condition?

8 A We can debate that, yes. From a 9 regulatory sense, it is not totally clear, but you 10 could say certainly from the patient's point of 11 view, it is serious.

Q From a?

13 A Regulatory.

14 What about from a pharmaceutical 15 company's perspective, is it a serious condition?

16 A Certainly Pfizer took it as a serious 17 condition.

Q Could you point to anything that you reviewed or anything that you saw that showed 19 20 Pfizer investigated those two reports in 2000?

21 A I think when they became aware -- I 22 can't remember. I reviewed all of these PSURs. 23 and every report that they were aware of, they 24 investigated, and it stimulated them to do 25 additional studies, mechanistic studies to see

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mechanistic studies that they did in human beings regarding the biological plausibility of Viagra being related to NAION. So there's lots of information studies, other outside studies that were done, papers, a lot of information regarding the relationship between NAION and Viagra.

Q Okay. The date of February 24th, 2005, when you mention that date, you are referring to a request by DRUP requested in a letter received by Pfizer on March 16th, 2005, that changes be made 11 to the post marketing adverse events section of 12 the Viagra labeling?

A Correct.

Q You write on February 24th, 2005, "After 15 reviewing the recent data from post marketing adverse events." What specific recent data are you referring to?

A I can't answer what specific data. That 19 wording comes from the letter. The letter that 20 DRUP sent to Pfizer states that we are asking you 21 to put this on the label based on information. I 22 can surmise from my general knowledge and from 23 other information that they were evaluating this 24 safety signal with various data, MedWatch reports, 25 and literature and things like that.

whether they thought there was a relationship between -- that Viagra was affecting the blood flow.

NAION is, of course, a condition which is supposed to be related to ischemia of the optic nerve, so one of the key biological issues here is does Viagra cause ischemia, or does it promote ischemia, whatever, of the optic nerve, and Pfizer was very aggressive in pursuing that avenue.

10 Q Let me back up. I think you just said 11 subsequent to this, Dr. Pomerantz's abstract, that 12 Pfizer conducted mechanistic studies to 13 investigate this issue?

> Α Yes.

15 Which studies?

There were -- let me say there were 16 17 studies done previously to look at the --

Q But that wasn't my question. MS. LESKIN: Let him finish his answer.

Q Fair enough, Doctor.

21 A There were studies done previously during the approval process regarding retinal 22 23 toxicity in humans and animals.

> Q You talked about this?

25 Then there were studies done afterwards.

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1 I think some of these studies were done in

2 Stanford, I think, or Penn, excuse me. Actually,

Dr. Grunwald did some studies looking, and others

did studies among other things looking at the 5

blood flow to the various areas of the retina or the optic nerve to assess that situation.

Q I am sorry, are you finished with your answer?

A Yes.

10 Q You just testified, and I asked you to 11 follow up on that, subsequent to October 2000,

12 when Dr. Pomerantz's abstract came out citing the

two cases of NAION, you said Pfizer did 13

mechanistic studies after that. Which studies are 14 15 you referring to.

16 MS. LESKIN: Objection, asked and 17 answered.

18 MR. GOMEZ: I don't think he answered

19 it.

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MR. BORG: Overruled.

21 A I believe -- I may have the dates wrong, 22 but I believe that is the mechanistic studies that

23 I am talking about were done after 2000. The

24 ophthalmologic studies.

MR. GOMEZ: Real quick, time?

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MS. LESKIN: 1:01.

Q Let's talk a little bit about where we are now. As we sit here today, March 2009, you write in your report that Pfizer is in the process now of conducting a case control study on this issue with Viagra and NAION, correct?

A No.

8 Q What is the study?

9 It is a case crossover study.

10 Q Explain. What are they looking for in 11 this case crossover study?

A What they are looking for is to see if the incidence of the adverse of NAION occurs more frequently in people taking PDE5 or Viagra than in 15 the population not taking Viagra.

Q What is the purpose of this study?

That is the purpose of the study...

18 Q Okay. When were they first asked to do 19 this study?

20 A A letter was sent to them regarding 21 doing an observational study in December of 2005.

22 Q Okay. You are referring to on

23 December 21st, 2005, DRUP sent a regulatory letter

24 to Pfizer in regard to, quote, "rare post

marketing reports of vision loss due to NAION in 25

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men who have taken PDE5 inhibitors, including 2

A I think that is the letter in which they ask for a -- a post marketing study.

Q In fact, Doctor, they recommended, or they write in the letter that "We recommend that you conduct a case control study of incident NAION cases;" is that correct?

That is correct.

10 The objective of this study would be "to determine whether use of PDE5 inhibitors is an 11 12 independent risk factor for NAION," end quote, 13 correct?

14 That is correct.

15 The letter went on as you write to 16 recommend certain technical aspects of the study and suggest that Pfizer consult with FDA's," quote 17 18 "Guidance for industry on good pharmacovigilant 19 practices and pharmacoepidemiology assessment, 20 March 2005," correct?

21 That is a document that I want to show 22 you before the end. I want to talk about that 23 because you do mention it a few times in your 24 report. What was Pfizer's response to that

25 letter?

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A Pfizer's response was that they provided 1 2 information in which they said they believed that

3 there was sufficient information to say there was 4 no increased incidence of NAION in patients taking

5 Viagra, and two, they weren't sure a case control 6

study was feasible. They give scientific argument 7 regarding why a case control study was not

8 feasible.

9 Q Okay. But as we sit here today, they 10 are doing this study?

11 No, they are not doing that study. 12

Q What is the difference?

13 The difference is that ultimately, there 14 is a lot of technical interactions between FDA and 15 Pfizer.

16 Q Okay.

17 Ultimately, FDA realized that, in fact, 18 a case control study is not feasible, and then we get into the discussion about a case crossover 20 study. But ultimately, the FDA acquiesced or agreed with Pfizer that a case control study would 21 22 take too long or, you know, was not feasible in

23 this situation. So then they got into further

24 discussions.

The purpose of this case crossover study

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24 (Pages 90 to 93)

Page 90 Page 92 that we are speaking of today -of NAION when patients are exposed to a PDE5 2 A Yes. 2 inhibitors like Viagra? 3 Q - is to investigate the relative risk 3 A Yes. 4 of NAION when patients are exposed to PDE5 4 Q Compared to people who are not, correct? 5 inhibitors compared to when they are not? MS. LESKIN: Objection, asked and 5 6 A That is correct. 6 answered. 7 Q Okay. If they find that the relative 7 MR. BORG: Overruled. 8 risk -- explain that to a layman. What does that 8 Answer it. 9 mean, relative risk? 9 A Repeat the question. 10 A It means that the chance of getting 10 Q Sure. 11 NAION would be more if you took Viagra than if you 11 I am going to quote what you write in had not taken Viagra, if that is what the result 12 your report. 13 of the study shows. 13 MS. LESKIN: What page? Q And --14 14 Q Page 16, last paragraph before Section 15 A They are looking to see if it is true 15 5.F, you write, "Pfizer acquiesced to the FDA's 16 that the chance of getting NAION is when you take technical and temporal parameters regarding a case 16 17 Viagra than when you don't take Viagra. 17 crossover study to investigate the relative risk 18 Q That is information that a prescribing 18 of NAION when patients are exposed to PDE5 19 physician would want to know, he would find that 19 inhibitors compared to when they are not." 20 helpful in determining whether or not to prescribe 20 As of the writing of this report, Pfizer 21 a drug to his patient, correct? 21 had begun accrual of patients' details of the study which can be found at clinicaltrials.gov. 22 A I am not sure about that. The label 22 23 already puts physicians on notice that there is 23 Assume for purposes of this next question that the results of this study show a statistically some possibility that there may be an association, 24 so I really can't answer that question. You would significant relative risk of NAION when patients Page 91 1 have to --1 are exposed to Viagra or any other PDE5 inhibitor 2 Q I am sorry, Doctor. I didn't mean to 2 compared to when they are not. If that is the 3 interrupt. I told I am bad at that. 3 case, is that something a prescribing physician 4 If the results of this study show a 4 would want to know so they can relay to their 5 relative risk that is high in epidemiological 5 patient when prescribing the Viagra? 6 standards, that is something that a prescribing 6 MS. LESKIN: Objection, improper 7 physician would want to tell their patient; would 7 hypothetical, lack of foundation. 8 you agree with that? 8 MR. BORG: Overruled. A If -- well, I guess that -- I think that 9 Are you able to answer that question? 10 is true if it is -- if it is substantial 10 A I disagree with the assumption. I 11 information. 11 disagree with the assumption because I -- I --12 quite frankly, my opinion is that this What do you define as substantial 12 13 information? What would be a relative risk that 13 epidemiologic study is not from -- not going to is substantial? Would you explain that to a 14 14 show any difference because I feel there is enough 15 layperson? 15 information to indicate that there is no 16 A It is hard to answer that question. 16 difference. 17 Maybe -- I don't know if I am the right person to 17 Q Okay. 18 answer that question, to tell you the truth. 18 Or little difference. 19 There is a lot of unknowns here about how a 19 Q That's a new opinion. You are now --20 physician would react to these things, how 20 A Right. 21 physicians take into account labeling, you know, 21 Q That is not in your report? 22 that kind of thing. I am not sure I can answer 22 Α 23 that question. 23 So you are giving an opinion now you 24 don't think the study is going to show a relative Q The purpose of this study that is going 24 25 on right now is to investigate the relative risk risk? You don't think that? 25

25 (Pages 94 to 97)

Page 94 Page 96 1 A I don't think so. 1 correct? 2 Q Okay. Based on what? 2 Α Yes. 3 Based on the information that I have 3 Q After 2000, when there were two reports 4 reviewed regarding NAION.. All of this other of NAION, I believe there were two reports of 4 5 information regarding the risk, the cases we have 5 NAION associated with Viagra, according to 6 here relative to the background information, the 6 Dr. Pomerantz's abstract. Is that a signal in 7 mechanistic studies, all of this information 7 your opinion? 8 together leads me to believe, in my opinion, that 8 A In my opinion? 9 we will not find -- there will not be found an 9 Q Yes. 10 increased relative risk of NAION when -- at the 10 A I would have to see the specific 11 completion of this study. 11 reports, two reports by themselves. A safety 12 Q If that is the case, why does the FDA signal is a concern. You have to look at the 13 want Pfizer to do the study? 13 reports if we are talking about specifically, but 14 Well, there are people -in general, you look at the reports, and reports 15 Q What is the purpose of the study? have a lot of difficulties, there is -- they could 16 MS. LESKIN: Objection, compound. 16 be duplicate reports, they could be insufficient 17 MR. BORG: You have two questions. I 17 reports. 18 bet you want them both answered. 18 So you have to first look at the 19 BY MR. GOMEZ: 19 reports, evaluate the quality of the reports and 20 Q As you sit here today, why does the FDA then accumulate in your ongoing investigation, 21 want to do it, then? I will stop there. 21 accumulate a series of reports and then put those 22 A I don't see -- the FDA, from the 22 series of reports into context regarding the 23 material that I reviewed, was interested in 23 background information, think about biological 24 further studying this event, which is appropriate, 24 plausibility, and at some point during that and you said to me assuming that the study shows process, someone or a group of people, and usually Page 95 Page 97 an increased risk, and I answered that by saying I 1 at the FDA, it is a team effort, so at some point, 2 don't agree with that assumption. The FDA is 2 a group of people would decide there is a safety 3 doing this because the people at FDA involved here 3 signal, and at that point, there are continuing believe that it is appropriate to investigate this 4 investigations regarding whether we generally meet 5 issue further. That is why they asked for this 5 the standard of wanting to put something in the 6 study. 6 label, is there evidence enough to put it in the 7 Q And you disagree with that? 7 label or at least discuss with the company to put 8 A My personal opinion is that -- my expert 8 it in the label. 9 opinion is that this study did not show a 9 And the company goes through the same 10 difference between Viagra and --10 process because companies are going through the 11 Q Did you convey that in 2005 on any 11 same process of looking at safety signals, and 12 telephone conference? 12 investigating and then go further on to determine 13 MS. LESKIN: Objection. It is 13 whether the information should be put on the 14 protected, Exhibit 5. 1:4 label. 15 MR. BORG: When he was working for the 15 You would agree with this general 16 FDA? 16 proposition that one serious adverse event can be 17 A I can't answer that question. 17 a signal? 18 MR. BORG: I don't think he can, either. 18 Can be generally. 19 Sustained. 19 Q Generally? 20 BY MR. GOMEZ: 20 Α Yes, right. 21 Q All right. We can agree that there was 21 Q Yes? 22 a safety signal with Viagra and NAION even though 22 But those circumstances, they would have 23 you call it weak, correct? 23 to be -- there are circumstances, for example, 24 That is correct, in 2005. 24 when you would have an event that was unheard of 25 Right. There was a label change, in the population, and something occurred which

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normally would never have occurred in the 2 population, and you had a really good case, 3 something like that, which of course, is not at 4 all which we have with NAION, but it is a possibility.

- Q You would agree with me that NAION is a serious adverse event?
- A In a medical sense, maybe not in a regulatory sense. It is something that is very serious to the individual, absolutely.
  - Q It causes blindness, correct?
- 12 Sometimes. Α

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- 13 0 But it causes blindness?
- 14 Α Sometimes.
- 15 Blindness is a permanent condition, Q 16 correct?
- 17 Α Sometimes.
- 18 Q Obviously I agree with you. Sometimes 19 it can resolve, correct?
- 20 A Yes.
- 21 Q But we can agree medically serious
- 22 adverse event, correct?
- 23 Correct.
- 24 Okay. What did Pfizer do to investigate Q
- 25 these two incidents of NAION referenced in

Page 100

- sometimes in terms of things like patient
- confidentiality. Sometimes the FDA or the company 3 will try to get further information, but they may
  - not be able to get further information, you know.
  - Q But sometimes adverse events are underreported, correct?
    - A Estimates?
    - No, strike that.

9 There is a general rule out there that 10 adverse events are underreported for certain 11 incidents?

- 12 Α What is better to say is that we don't 13 know whether things are underreported or even
- 14 overreported. For many drugs, they may be
- underreported. For a drug like Viagra, they may 15
- be overreported. We know that, that is all I will 16 17 say for now.
- 18 Q Going back to this case crossover study. 19
  - Α
- 20 Q What is the status now as of March 13,
- 21 2009, of the study?
- 22 A My understanding from the public website
- is that they are accruing patients. That is all I 23
- 24 know about it, they are accumulating patients. 25
  - Let me ask you this: You would agree

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- Pomerantz's 2000 abstract?
- A Pfizer, when they received these reports, looked at the reports. When we received
- the actual reports, looked at the reports, put
- 5 them in context, put them in the context of all of
- 6 the other visual events, and at the same time they 7
- were looking at all sorts of other events, but 8 they -- from everything I have read, Pfizer was
- 9 very aggressive about evaluating all of their
- 10 adverse events, including their visual effects 11
- from the information I have.
- 12 Q But is there anything to indicate in the 13 record that you have reviewed, please point it out 14 to me, that Pfizer tried to contact these
- 15 patients? 16
  - A I don't recall anything like that.
- 17 Q They could have done that if they wanted 18 to, correct?
- 19 A They may have done that, I don't know. 20 I don't specifically.
- 21 Q Fair enough.
- 22 A They are obligated to contact --
- 23 according to the regs, they are supposed to try to
- get more information and do follow-up for these 24
- serious adverse events. And there are impediments 25

- that Pfizer knew of a possible association between 2 Viagra and NAION in 2000, correct?
  - A No.

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- Q Well, they knew of patients who had taken Viagra and had developed NAION in 2000, correct?
  - Α Correct, I think.
  - Why not just do a study then? Why not? Q
- 9 A We have to put things in context. There 10 were two reports. Quite frankly, I don't even
- know if the two reports were on NAION, but there 11
- 12 were two reports of something, some sort of
- ischemic optic neuropathy, among maybe --13
- 14 ultimately, when the report in 2005 was made
- 15 public, it included foreign reports and American 16 reports.
- 17 In a particular year, there were perhaps 18 100 million tablets, at least, maybe 150 million
- 19 tablets of Viagra administered, taken by people. 20
- Among that, there were two, maybe, reports of 21 NAION. They investigated those reports as they
- 22 investigated all sorts of other reports about all
- 23 sorts of things that came into them, and something
- 24 like that didn't rise to the level of a signal or 25 anything. If that standard was appropriate for

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27 (Pages 102 to 105)

Page 102

1 those two cases, they possibly would be doing God 2 knows how many, 50 epidemiology studies. If they 3 had two reports of something, there are two reports of many different things.

5 Q But, Doctor, they had more than two 6 reports? Prior to July 2005, they had more than

two reports?

A That's right.

9 Q In fact, from January 1998 to December 10 2004, Viagra was associated with the highest

11 number of ischemic optic neuropathy reports,

12 19 percent in the AERS database, you would agree

13 with that? 14

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A I have seen that written. I have no --

That is something that comes from the Q 2005 Public Citizen Watch Letter that was sent to 16 the FDA, correct?

18 That analysis was in there, yes.

Q And that is what we called data mining?

20 Α Yes.

21 Q And you state data mining is unreliable, 22 correct?

23 MS. LESKIN: Objection.

24 Q In your report, generally?

25 It is not just me. Data mining is kind

Page 104

1 Q Do you know about any incidents of NAION being reported in Europe in the time frame of 3 2003? Did you review anything?

4 There are several things I can comment Α 5 about.

Q Sure.

One is that there were several

8 observational studies in -- one was in U.K. and one was in Europe after it was approved there, I

am not sure of the exact timing, where both in the 10

U.K. study and the European study, the conclusion

12 was that there was no increased incidence of 13 NAION.

14 The second thing I can comment about 15 that in the final public comment that FDA made in 16 July of 2005, after all of this labeling changes, the FDA broke down on their website where the

reports came from, and some of the reports in the 18 19 analysis were foreign.

20 So there were both foreign and U.S. 21 reports in the final 2005 analysis, and Pfizer, in

22 fact, was required, I believe by regulatory 23 authorities, to do both of these European

24 studies -- I should say English and European

25 studies. So they were investigating.

Page 103

of an exploratory analysis that is even at a lower

2 level than the analysis one has from looking at

3 the ARS work report because it is based on the ARS 4

reports. And actually, one of the flaws of that, 5 I think, in Dr. Wolfsen's petition, he compares

6 Viagra and maybe PDE5 inhibitors in general with 7

other drugs, which is specifically cautioned

8 against in the pharmacovigilance guidance. 9

Aside from the fact that there are particular problems with what he did, there is a general opinion that most people agree that you should not be comparing different classes of drugs in a data mining exercise.

14 Q We are talking about the Pomerantz 15 report in 2000, he reported the seven additional 16 reports in 2005, correct?

I think it was 25, yes.

18 Q Adverse events just don't come from the

19 United States, correct?

20 A Serious adverse events, yes.

21 Serious adverse events like NAION? Q

22 Α Correct.

23 Q Pfizer has an obligation to look around

24 the world, correct? 25

A Yes.

Page 105

1 This is just one of the ways that they 2 were investigating foreign reports, and when you 3 read -- one reads the PSURs, you can see these 4 reports broken down by country as well as the 5 number of drugs. It is distribution of the drug by company. So they were analyzing foreign 7 information, also. 8

Q The February 2005 letter from the FDA from Pfizer regarding changing the labeling, the information that the FDA was relaying to Pfizer that they were basing their request on was something that Pfizer had in their possession, too, correct?

A Not completely. Perhaps.

What do you mean by not completely?

I believe that it is.

17 Q Are you saying that the FDA had more 18 information than Pfizer?

MS. LESKIN: Wait, one person at a time.

20 I am sorry.

21 The FDA often has different information.

22 They most likely had similar adverse event 23 reporting.

24 The 2005 labeling request, from the 25 information I read, was precipitated by

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Page 106
                                                                                                    Page 108
      accumulating events by Viagra, but perhaps other
                                                          1
                                                             precision for rapid conduct of the study." Did I
  2
      PDE5 inhibitors which Pfizer probably had no
                                                          2
                                                             read that correctly?
  3
      information regarding. This was, in my view, a
                                                          3
                                                                 A Yes.
  4
      class -- a request for class labeling because FDA
                                                          4
                                                                 Q So the FDA wanted this study to happen
  5
      actually says that in a letter, you know, the next
                                                          5
                                                             faster than it was, correct?
  6
      letter that they write. So some of the
                                                          6
                                                                A Yes.
  7
      information, I believe, perhaps regarding other
                                                          7
                                                                   Why?
                                                                Q
  8
      drugs was not at Pfizer's disposal.
                                                         8
                                                                A I can't tell that exactly from this
  9
         Q You write specifically that in your
                                                         9
                                                             information.
 10
     report on Page 13, right before 4.4, you said, "I
                                                        10
                                                                Q Why would the FDA want to do a case
     believe that the resultant labeling was adequate,
 11
                                                        11
                                                             control study?
     and the time frame for implementing this labeling,
 12
                                                        12
                                                                   MS. LESKIN: He was finishing his
     considering these changes involved other sponsors
 13
                                                        13
                                                             answer.
      in this case, class labeling was appropriate."
 14
                                                        14
                                                                   MR. GOMEZ: I am sorry, I thought he was
 15
            What do you know about the other
                                                        15
                                                             done.
 16
     sponsors?
                                                        16
                                                                   MS. LESKIN: You can finish your prior
 17
           MS. LESKIN: Based upon public
                                                        17
                                                             answer.
 18
     information?
                                                        18
                                                                A Yes, from the information I have been
 19
        Q Based on what you reviewed --
                                                             given, everything I have read, I am not sure why
                                                        19
 20
        A Okay.
                                                        20
                                                            they were so anxious. I can understand why they
 21
        Q
            -- to write that statement?
                                                             were so anxious to get the thing done and
 22
        A Well, the labeling -- the FDA in their
                                                        22
                                                             apparently less concerned about the correct
23 letter, which I have access to here, says that
                                                        23
                                                            conduct of the study. I can't really answer that
     they are going to do class labeling in the second
                                                        24
                                                            question.
 25 letter, and also in the FDA public statement in
                                                        25
                                                                    Would it be fair to say that the FDA
                                           Page 107
                                                                                                   Page 109
     July, they talk about the other two drugs. They
                                                             wanted the study done in a rapid manner because
 2
     talk about -- it is Viagra, Cialis and Levitra.
                                                         2
                                                             there were safety issues at stack?
 3
        Q You would agree with me that Viagra is
                                                         3
                                                                A I think that the FDA wanted -- clearly
 4
     No. 1 in terms of sales and prescriptions?
                                                         4
                                                             the FDA wanted the study accomplished, yes, to
 5
        A It was at that time.
                                                         5
                                                             further investigate the safety issues.
 6
        O It still is?
                                                         6
                                                               Q Would you agree with this statement,
 7
        A I am not sure. I don't know for sure.
                                                         7
                                                            that if the results of a study showed that there
 8
        Q In fact, Viagra has been reported in
                                                         8
                                                            was a safety issue with Viagra, that that would
 9
     some years as 1.9 billion in sales, correct?
                                                         9
                                                            hurt Pfizer's sales of Viagra? Do you agree with
10
        A I don't know.
                                                        10
                                                            that?
11
           MR. GOMEZ: What time is it? How much
                                                        11
                                                                  MS. LESKIN: Objection.
12
     time do we have?
                                                        12
                                                                  MR. BORG: Overruled.
13
           MR. BORG: It is 1:25.
                                                        13
                                                               A In regard to if there was some -- you
14
           Going back to Page 16.
                                                        14
                                                            know, I am not sure that is true.
15
           MS. LESKIN: Of the report?
                                                        15
                                                               Q Okay. You would agree if the FDA wants
16
           MR. GOMEZ: We are still with the
                                                        16
                                                            the study done fast for safety issues, why doesn't
17
    report.
                                                       17
                                                            Pfizer want to do the same thing?
     BY MR. GOMEZ:
18
                                                       18
                                                               A Because there is no point doing a study.
19
        Q Now, you refer to an August 2nd, 2007
                                                            You are wasting a lot of resources doing a study
                                                       19
20 face-to-face meeting between Pfizer and the FDA,
                                                       20
                                                            where the results will be questioned.
21
    correct?
                                                       21
                                                            Epidemiological studies are often questioned.
22
        A Yes.
                                                       22
                                                           They are very difficult to do, much harder than
23
        Q Okay. Then you write at that time, "FDA
                                                       23
                                                            control studies. Almost every epidemiological
24 was primarily interested in the time frame to
                                                       24
                                                            study that I have seen, there are questions about
25 complete the study and was willing to sacrifice
                                                       25
                                                            all sorts of issues.
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#### 29 (Pages 110 to 113)

Page 110

1 So it is very important to get these 2 parameters correct from the beginning. In this 3 case, from what I have read, Pfizer was making a 4 good faith effort to get everything correct. In

5 fact, they hired one of the main -- one of the

- 6 main people, the consultant was somebody who the
- 7 FDA quotes in their pharmacovigilance guidance.
- 8 They may have made every effort to get all of this 9
- information and the conduct correct, and the FDA 10 on its own says, essentially, well, you know, we
- 11 know there are some problems here, but let's just
- go ahead and do the study. I cannot answer why 12
- 13 that was, but that is clearly shown in the
- 14 information that I read.
- 15 We can agree on this, that the study was 16 requested at the end of December, December 21st, 17 2005, over three years have gone by, and the study 18 is still not completed, correct?
- 19 A It is not completed.
- 20 Q I guess --
- 21 However, even if they started the study 22 when it was requested, it wouldn't be completed at
- 23 this date.

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24 Q How long is the study going to take to 25 be completed?

Page 111

Well, that was one of the controversies about this. I don't know the current, but at one point, someone thought it might take 10 or 15 years. I am guessing, I don't have the date. Maybe five or six years, I just don't know. I don't have enough information.

Part of the problem is that a more precise study would have taken a longer period of time. The FDA didn't want to take that long, and they were willing to accept less precision for a shorter study.

Q Well, at first, Pfizer didn't want to do the study at all because they thought it wasn't 13 14 feasible, correct?

15 That is true. And the FDA agreed with 16 them, that a case control study was not feasible. 17 Then they switched to a different kind of study 18 that was perhaps more feasible. The FDA's own ophthalmologist, and it is quoted in the telecon, 20 Dr. Wiley Chambers, stated in one of the -- either 21 in a letter or the telecons that he did not think 22 that the case control study was feasible.

23 Q On April 12th, 2006, DRUP believed that 24 a prospective case control study was feasible, 25 correct?

Page 112

1 A I think in that same letter, they talk 2 about disagreement, and he didn't -- that there were -- in one of the letters, they talk about 4 disagreements.

Q Right.

A Ultimately, they changed their mind and said let's do a case crossover study rather than a case control because a case control, it would take too many people, and it would take too long. A lot of this discussion was surrounding the type of 10 11 study to do.

12 "On April 12th, 2006, the division Q 13 informed Pfizer that in consultation with the division of drug risk and valuation in OSE that 15 'while many of the design issues for such a study 16 require further discussion, DRUP believes that a 17 prospective case control study is feasible and may provide additional information toward determining 18

19 the potential risks of PDE5 inhibitors as

20 independent contributors to NAION events." Did I

21 read that correctly? 22

Α Yes.

23 Q Okay. Then you talked about

24 Dr. Chambers?

25 A Yes..

Page 113

1 Q You write on Page 15, the second to the 2 last paragraph, okay?

3 Α Yes.

4 "In its written response to Pfizer's 5 October 9th, 2006 submission described above, DRUP sent draft comments in preparation for a 7 teleconference to be held between the appropriate 8 FDA and Pfizer clinical and regulatory experts." I 9 will stop right there.

10 Were you on that conference call; yes or 11 no? That is all I want to know.

A I don't remember. I can easily check 12 13 the records and see if I was on the conference 14 call.

15 Q In these comments communicated by DRUP, 16 it was stated there are different opinions within 17 the collaborating groups regarding the feasibility 18 of an epidemiologic study. For example,

19 Dr. Chambers," who you talked about, "and the FDA

20 ophthalmology experts expressed, meaning 21 prospective case control study is not likely to be

22 doable at this time." Did I read that correctly?

23 That is correct.

24 And DRUP further stated that although it O believed that a prospective case study is

Page 114

feasible, it recognizes that the definition of 2 NAION in the exposure window are two areas that need additional discussion. DRUP still believed 3 4 as of March 23rd, 2007, that a case control study 5

was feasible, correct? MS. LESKIN: Objection, misstates the evidence, lack of foundation.

MR. BORG: Overruled.

If you are able to answer.

10 A Restate that question.

11 Q As of March 23rd, 2007, DRUP believed 12 that a prospective case study was feasible, 13 correct?

14 A But as I state, there were differences 15 of opinions internally.

16 Fair enough. And we talked about that, Q 17 right?

18 Yes. Α

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19 Q How many studies did Pfizer do to get 20 Viagra approved?

21 A Ten human studies, maybe 20, 30, 40 animal studies. Another 50, something like that, 22 23 just off the top of my head.

24 Q Have I covered all of your opinions that 25 you are going to give, if asked to testify?

1 correct?

3

2 A Yes.

Q After it is approved in 1998, all the 4 way through July 2005, you would agree with me in between that time frame, whether it be 2000, 2001, 5 2002, that Pfizer became aware that there were 7 reports out there that a very serious eye 8 condition called NAION was being suffered by 9 people who were taking their drug Viagra. Would 10 you agree with that?

A That they were aware that people were 11 getting NAION who also happened to be taking their 12 13 drug, that is true.

14 Q They were aware of reports that were out 15 there?

16 Α

17

Q Why not do one more study? Why not?

A Well, I guess I sort of gave that answer 18

before. If you put that standard to it, there 19 were people out there with all sorts of stuff 20

21 going on. I mean, these were -- these are older

22 men, okay, and they were getting everything that

23 older men get. NAION is one of them. But they --

24 if you look at the PSUR reports, there are reports

of all sorts of serious things going on with these

Page 115

Α (No response).

Q Have I covered all of the ones in your report?

A Covered all my opinions?

5 Q

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6 A Yes, we went through the conclusions 7 which are my main opinions.

Q Okay.

A I have lots of opinions.

10 Q Sure. We could sit here all day and ask 11 you about that, but --

A I have opinions about Dr. Bloom's 12 13 opinions, which of course, the big issues are 14 covered.

15 Q The opinions that you will testify to are contained in this report? 16

17 Yes.

18 Q Are you going to give any other opinions 19 that aren't in this report? 20

A I don't think so.

21 Q I guess what I want to ask is: Pfizer conducted over 20 to 40 human studies to get 22 23

Viagra approved, correct?

It was efficacy, does the drug work. 24 25

Does the drug work and is it safe,

Page 117

Page 116

1 older men. So they could have done -- they would 2 end up doing multiple studies using that standard,

3 in my opinion. Every time they got a report about

4 some serious event, not even saying the studies

5 are feasible, we didn't even know if these studies 6 were feasible, doing multiple epidemiological

7 studies, taking up multiple resources, costing a

8 lot of money for the people at the FDA. Forget 9 about Pfizer, people at the FDA do not -- everyone

10 considers the resources involved in doing a study. 11

So there would be no motivation to just 12 do studies every time one or two events -- reports 13 of a serious adverse event came in when it is not 14 even to the level of a safety signal, much less 15 even to be on the label.

16 Q But they are doing the study now; aren't 17 they, correct?

18 A They are doing the study now, that is 19 correct.

20 Q We have had a label change, correct?

21 That is correct. Α

22 Q In the precautions section of the label, 23 correct?

24 Α That is correct.

25 The standard for a precautions section O

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#### 31 (Pages 118 to 121)

Page 120

Page 118

label change is that there is a reasonable association between the drug and the event, correct?

A Correct.

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Q Pfizer never took it upon themselves to change the label, correct?

A Not from the information that I have here, correct.

9 Q So it is your opinion before we stop, 10 that the label change was timely, correct?

That is correct.

12 We went over everything that you base Q your opinion on, it is in your report? 13

A That is correct.

0 Okay. It is your opinion that the study that was asked to be done in 2005, the case 16 crossover study, is being done in a timely manner, correct?

19 A In a timely manner, correct. Yes..

20 MR. GOMEZ: Let me have a second to go 21 through my notes.

22 MR. BORG: Mr. Gomez, don't rush this 23 because of me.

24 (Recess taken)

MR. GOMEZ: As Exhibit 3, CFR 314.80.

Page 119

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(CFR 314.80 marked Shames Exhibit 3 for identification.)

MR. GOMEZ: "Guidance for Industry," I am going to mark this as Shames 4, please.

(Document titled "Guidance for Industry" marked Shames Exhibit 4 for identification.) BY MR. GOMEZ:

Real quick, Page 9 of your report. Are you there?

10 Α Yes.

11 The second full paragraph down, it's one beginning with "ED," there is a sentence in there?

13 Yes.

14 That says, "Therefore, it is not possible to say there is a causal relation between 15 NAION and the use of Viagra." 16

A Correct.

18 O Yes?

19 That is what I said. Therefore, it is 20 not possible to say there is a causal relation 21 between NAION and the use of Viagra, right.

22 O When you say causal relation, define 23 that.

24 A causal relationship to my view is when there is a high level of evidence that the drug is

related to the particular adverse event, the

2 biological event. There is no standard definition

3 of causality by the FDA or anyone else that I

know. There is some subjectivity. That is my 5

definition of causality. 6

Q Just so that I understand you, you talked earlier about changing the precaution section of a label, correct?

Yes. Α

10 Okay. We agreed that to put a change in Q 11 that section, there has to be reasonable evidence of an association, correct, between the drug and 12 13 the event, you agreed to that?

14 Right, whatever reasonable association.

15 So when you say it is not possible to 16 say there was a causal relation between NAION and 17 use of Viagra, you are putting that on a continuum 18 above reasonable association?

19 A The evidence for causation, I would say, 20 is much higher than reasonable association.

21 Percentage wise, what is it?

22 Percentage wise, I don't even know what Α 23 that means.

24 More likely than not? Q

25 (No response).

Page 121

Q What is reasonable evidence of association?

A Reasonable evidence of association in terms -- in practical terms in this situation is when the FDA decides there is a reasonable evidence of an association. That's in reality what it is.

Or in fact, a drug company could look at the regulations and decide when they believe there is a reasonable evidence of association.

Q It seems like you are saying two 12 different things. You are saying there is not a 13 causal relationship, you also testified there is a 14 reasonable evidence of association?

A I may be wrong, but I think causation is 16 a much higher -- causation is much higher, a 17 higher level of -- on a continuum, you have a suspicion, then you have an association, but these 18

19 are not causation. Causation means the drug --20 you know, if you have a drug that causes liver

21 failure, or aplastic anemia or something, and that 22

never occurs in this population given the drug, 23 but if they get aplastic anemia, you can consider

24 that the evidence is much higher, that might be

25 causation. There is nothing here that indicates

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Page 122

1 causation. You don't need causation to be on the 2 label.

- Q What is your understanding of causation? On the continuum, where is the causation?
  - A Causation is way out there.
  - Q Is that 75 percent?
  - A I don't know how that --
- 8 Q More likely than not, is that evidence 9 of causation?

10 A You know, causation is such a high standard. I don't think it ever appears in the 11 FDA label. To be sure of causation, it is very, 12 very unusual that you would actually kind of be 13 14 absolutely assured of causation, so --

Q Where would I find that in the documents you reviewed, that definition?

A well, I don't know about the definition of that. In the pharmacovigilance guidance, it says that the FDA has no standard definition of 20 causation, rather it says there is no real good 21 standard of causation.

22 Q I don't mean to belabor the subject, you 23 say they don't have a standard definition for 24 causation. Correct me if I am wrong, your 25 understanding for causation is way up there, you

Page 123

said? I am just trying to understand what is your definition of causation.

A My understanding is you take this drug, you are going to get this, that is my -- that to me is a causation.

Q So in other words, correct me if I am wrong, if you take a drug, and you get a condition, it is the cause of the condition, would that be your definition?

A No, no. I mean, if there is no other 11 reason for you to get this than that, that could be causation. There is no other reason for you to get this, you take the drug and you get it, that might -- and that happens multiple times.

15 Q So it is your testimony that there can't be more than one cause of an event? 16

A I didn't say that.

18 Q Am I understanding you correctly, that 19 is what you are saying?

20 A No, I didn't say that. I said -- I said 21 the drug could be a cause, but there certainly 22 could be other causes.

Okay. Q

24 Α I mean, you know.

25 Let me go to Page 12 at the top. You

Page 124 1 say, "When the agency or a sponsor seeks to alter

2 safety related labeling." We can agree that the 3 sponsor, Pfizer, didn't seek to alter any safety 4 related labeling in this case, correct?

A I am not aware of any, no.

Q A few things, general propositions I want to ask you about, and then we are done regarding post marketing.

Would you agree with me that once a signal is detected, adverse events should be fully and quickly evaluated to determine if a safety risk is identified? Would you agree with that statement?

14 A It should be further investigated, 15 correct.

16 Q Okay. Would you agree with me that a 17 sponsor or a pharmaceutical company is required to 18 review information with the FDA to determine if 19 additional studies are needed to address safety 20 concerns?

21 A Say that -- at what point is this? Just 22 in general, what do you mean?

23 These are general propositions. Q

24 Α That a company is required to -- yes, 25 they --

Page 125

MS. LESKIN: Can you repeat the question. 3

Q Would you agree with me that a pharmaceutical company is required to review information with the FDA to determine if additional studies are needed to address safety concerns?

8 A I don't know if that is an actual 9 requirement. I mean, it is certainly a good idea, 10 I agree with that. I just don't know if there is 11 a regulatory requirement, that is what I am not sure about. Companies sometimes will often do 12 13 studies that the FDA is not aware of. It might be 14 in Europe or somewhere. Sometimes they might do 15 studies elsewhere or -- I am not sure they need permission, but in most cases, it is a good idea 16 17 to talk to the FDA, I can agree to that. Whether 18 they are required, I just don't know.

19 Q You would agree with me that the duty to 20 act quickly and promptly, as we discussed just a 21 moment ago, falls to the manufacturer?

22 A Quickly and promptly regarding -- I 23 think both the FDA and the manufacturer have a 24 duty to act promptly to investigate safety issues, 25

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33 (Pages 126 to 129)

Page 126

MR. GOMEZ: I think that is all I have. I might have one or two more.

EXAMINATION BY MS. LESKIN:

Q I have a couple of questions to follow up, Doctor.

We talked a little bit today about pharmacovigilance?

Α Yes.

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9 Q Mr. Gomez asked you about the number of reports of NAION that existed at various points in 11 time. Is it acceptable pharmacovigilance 12 methodology to similarly count the number of 13 adverse events before taking an action such as 14 changing the label?

15 A No. The pharmacovigilance guidance 16 specifically says how one should individually evaluate the reports, the individual reports. This evaluation includes information related to 19 the adverse event, like when did the adverse event 20 occur, what is the extent of the adverse event, 21 what are the symptoms and signs of the adverse 22 event, the timing of the adverse event related to 23 the drug, the clinical course of the patient after the adverse event, whether the adverse event did

Page 127

disabling or not disabling, as much detail as 2 possible how the adverse event was diagnosed, 3 laboratory studies, the diagnostic criteria. A 4 condition like NAION requires, of course, a lot of 5 diagnostic tools to diagnose it.

or did not require hospitalization, whether it was

Q Is the total number of prescriptions being written a relevant factor to evaluate?

8 A Absolutely. It says -- it specifically 9 states in the pharmacovigilance guidance -- there 10 is a whole section about context that requests people to create reporting rates and compared to 11 background. On its face, of course, it makes sense to have to put this in context, so it is a 13 very important part, and the FDA believes it is an 14 15 important part.

Q When you say background, is the background rate of the event relevant to proper 17 pharmacovigilance?

18 19 A Absolutely. And it is again stated in 20 this guidance, but it only makes sense that it 21 would be important if you have an event that is 22 reported two or three a year, and in one case, 23 this event has never been reported ever in the 24 history of that population. That would make -- it might make you think one thing.

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1 If, however, it was reported two or 2 three a year, and there were millions and millions 3 of people taking it, and in this population of the 4 people taking it, this event occurred in a defined manner, then you would look at it in some other different way. It would make you evaluate it differently.

Would it be appropriate pharmacovigilant methodology to suggest a label simply on a count of the adverse event without doing this analysis that you just described?

A Absolutely not.

13 Mr. Gomez asked you some questions about O 14 studies Pfizer had conducted. Following the 15 approval of Viagra, did Pfizer conduct additional 16 studies of the drug?

> Α Yes.

Q Additional clinical studies?

Α Yes.

20 Q I want to direct you to Page 8 of your 21 report, and there is that third paragraph from the 22 bottom. Are you there? It starts "no cases." 23

A Yes.

24 Q How many patients were involved in the original clinical data set that was submitted to

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the FDA in connection with the Viagra NDA? 1 2

The people exposed to Viagra were 3,800, 3 right.

4 Q Directing you to Page 14 of your report, 5 the paragraph talking about the August 5th, 2005 Pfizer letter at the top of that page. Do you see 6 7 where I am?

A Right.

9 Q As of August 5th, 2005, how many 10 patients had participated in clinical trials for 11 Viagra?

> Approximately, 13,000. Α

13 Q So that is about --

14 13,000 took Viagra, so that is, you Α

15 know --

8

12

16 Q It is a little less than 9,000 17 additional patients were involved in clinical

studies between the time of approval and August of 18 19 2005; is that fair to say?

20 A That is correct.

21

Q Did any of those patients get NAION?

22 A None of those patients got NAION.

23 MS. LESKIN: I have nothing further. 24 CONTINUED EXAMINATION BY MR. GOMEZ:

25 One or two follow-ups on that very

## 34 (Pages 130 to 133)

	Page 130		P 120
	<del>-</del>		Page 132
1	issue.	1	STATE OF NEW YORK ) Pg 77 of 78 Pgs
2	Doctor, you can agree with me that the	2	ss:
3	studies that Ms. Leskin just referred to weren't	3	COUNTY OF NEW YORK )
4	designed to look for NAION?	4	I wish to make the following changes, for
5	A Generally, they were not.	5	the following reasons:
6	Q Even though you had all of these	6	PAGE LINE
7	studies, you would agree with me that the FDA	7	CHANGE:
8	still wanted an additional study done on this very	8	REASON:
9	issue?	9	CHANGE:
10	A That is true.	10	REASON:CHANGE:
11	Q Okay. So you would agree with me that	11	CHANGE:
12	as a former employee of the FDA, if a study had	12	REASON.
13	been done on this issue regarding Viagra and NAION	13	CHANGE:
14	previously, you wouldn't ask the company to do a	14	NCASON.
15	study again; would you?	15	CHANGE:
16	MS. LESKIN: I want to make sure of the	16	REASON:
17	context you are asking as an expert, not based on	17	CHANGE:
18	what he knew at the time he worked at the FDA,	18	REASON:
19	correct? I want to make sure. You said as a	19	CHANGE:
20	former employee.	20	REASON:
21	Q I am asking you as an expert, and part	21	CHANGE:
22	of your expertise is based on your FDA experience,	22	REASON:
23	correct?	23	CHANGE:
24	A The answer is that there would have had	24	REASON:
25	to have been a reason to do the study in the first	25	
	Page 131		Page 133
1	place.	1	
2	Q That is not my question, with all due of	1	CERTIFICATE
3	respect.	2	STATE OF NEW YORK )
4	A I didn't say you wouldn't do another	3	: SS.
5	study. It depends on the record of the first	4	COUNTY OF NEW YORK )
6	study. The first study might have been equivocal.	5	I, ANITA SHEMIN, a Certified
7	Just because they did one study on a condition on	6 7	Shorthand Reporter and Notary Public within
8	a situation doesn't mean they wouldn't have asked.		and for the State of New York, do hereby
9	I have seen times where they would ask for another	8 9	certify:
10	study. It depends on the first study. Maybe the		That DANIEL A. SHAMES, MD., the
11	first study was equivocal, and then they would ask	10	witness whose deposition is hereinbefore set
12	for another study, or there was criticism of the	11	forth, was duly sworn by me and that such
13 14	first study.	12	deposition is a true record of the testimony
15	MR. GOMEZ: Doctor, that is all I have.	13	given by the witness.
16	I appreciate your time. It was a pleasure.  (Time noted: 2:08 p.m.)	14	I further certify that I am not
17	(Time noted: 2.08 p.m.)	15	related to any of the parties to this action
		16	by blood or marriage, and that I am in no way
18	DANIEL A. SHAMES, M.D.	17	interested in the outcome of this matter.
19	Subscribed and sworn to before me	18	IN WITNESS WHEREOF, I have hereunto
20	this day of, 2009.	19	set my hand this day of,
21		20	2009.
22		21	
		22	
23	NOTARY PUBLIC	23	ANITA T. SHEMIN, CSR
24		24	
25		25	

35 (Pages 134 to 136)

	Page 134		j
1	DANIEL A. SHAMES		
2	CERTIFICATE		1
3	STATE OF NEW YORK )		1
	: SS.		1
4	COUNTY OF NEW YORK )		ı
5	•		
6	I, ERIC J. FINZ, a Shorthand Reporter		
7	and Notary Public within and for the State of		ı
8	New York, do hereby certify:		
9	That DANIEL A. SHAMES, the witness whose	MERRILL LEGAL SOLUTIONS (212) 557-7400	
10	deposition is hereinbefore set forth, was duly		***************************************
11	-5 and sadir deposition is a true		
12	given by the withess.		
13	and I will not rotated		
14			
15	or marriage, and that I am in no way		
16	interested in the outcome of this matter.		200000000000000000000000000000000000000
17	IN WITNESS WHEREOF, I have hereunto set		
18	my hand this day of, 2009.		
19 20	•		
21	EDIC L PDIG		
22	ERIC J. FINZ		
23			
24			ı
25			
20	MERRILL LEGAL SOLUTIONS (212) 557-7400		
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16	Office of the General Council		MCORCOM.
17	Ethics Division, January 2008"		
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23	The state of the s		South Services
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